

March 10, 2020 RTC



TIP ACTIONS

Transportation Improvement Program
Pennsylvania TIP (FY2019-2022)
New Jersey TIP (FY2020-2023)



ADA Ramps 2020 Bucks & Montgomery Counties Various Counties | Advance Construction Phase

- **TIP Amendment**
- **Action:** Advance CON funding from the 2nd and 3rd four years of the TIP to FY20 (\$7,500,000 STU/Toll Credit)
- **Background:**
 - Project will construct Americans With Disabilities Act (ADA) compliant facilities along various state routes in Bucks and Montgomery Counties (**496 ramps**)
 - Roadways include Bristol Pike, Lincoln Highway, Delmorr Avenue, River Road, Moreland Road, Bustleton Pike, Buck Road, State Road, Otter Street, Trenton Avenue, Oxford Valley Road, and Swamp Road

ADA Ramps 2020 Chester & Montgomery Counties

Various Counties | Advance Construction Phase

- **TIP Amendment**
- **Action:** Advance CON funding from the 2nd and 3rd four years of the TIP to FY20 and FY22 (\$3,800,000 STU/Toll Credit)
- **Background:**
 - ADA compliant facilities along various state routes in Chester and Montgomery Counties (**252 ramps**)
 - Roadways include Main Street and Anderson Avenue, Starr Street and Washington Avenue, Pottstown Pike, West Uwchlan Avenue, Hanover Street, Farmington Avenue and Hanover Street

2019 ADA Ramps Philadelphia

City of Philadelphia | Advance Construction Phase

- **TIP Amendment**
- **Action:** Advance CON funding from the 2nd and 3rd four years of the TIP to FY20 in the amount of \$3,962,000 STU/Toll Credit
- **Background:**
 - ADA compliant facilities along various state routes in the City of Philadelphia (**660 ramps**)
 - Roadways include Henry Avenue, Bethlehem Pike, Mount Airy Avenue, Easton Road, Girard Avenue, Cheltenham Avenue, Spring Garden Street, 52nd Street, 42nd Street, 65th Street, and more



TIP ACTION | Proposed – PA

Agenda Items 5a, 5b, and 5c

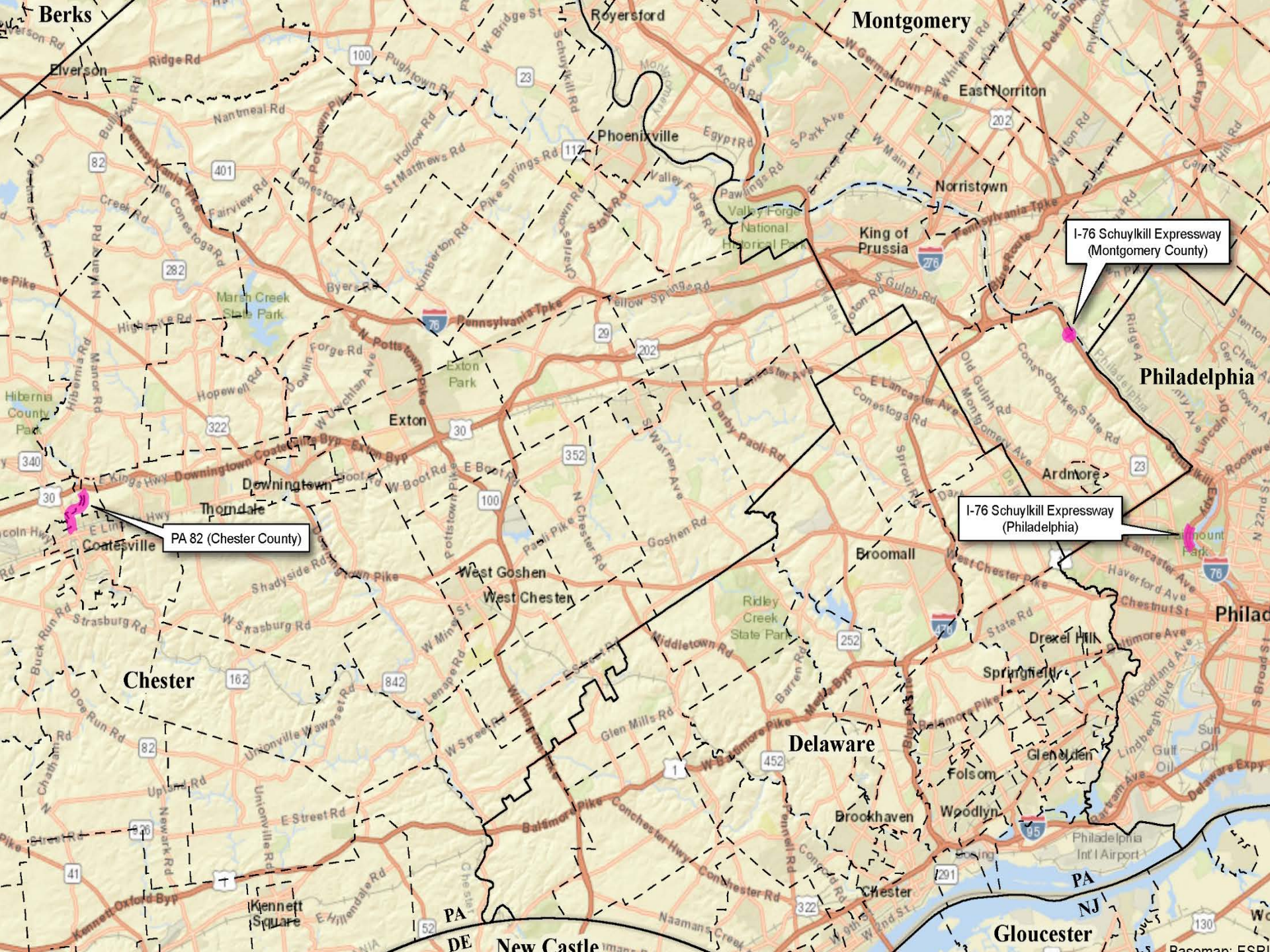
Recommend Board approval of PennDOT TIP Amendment requests:

- **ADA Ramps 2020 Bucks & Montgomery Counties**
Advance \$7,500,000 STU/Toll Credit for CON from the 2nd and 3rd four years of the TIP (FY25: \$130,000; FY27: \$7,370,000 STU/Toll Credit) to FY20
- **ADA Ramps 2020 Chester & Montgomery Counties**
Advance \$3,800,000 STU/Toll Credit for CON from the 2nd and 3rd four years of the TIP (FY25: \$188,000; FY27: \$3,612,000 STU/Toll Credit) to FY20: \$1,963,000 and FY22: \$1,864,000 STU/Toll Credit
- **2019 ADA Ramps Philadelphia**
Advance \$3,962,000 STU/Toll Credit for CON from the 2nd and 3rd four years of the TIP (FY24: 783,000; FY25: \$613,000; FY27: \$2,566,000 STU/Toll Credit) to FY20

Districtwide Barrier Repair

Various Counties | Add New Project to TIP

- **TIP Amendment**
- **Action:** Add new \$3,025,000 project (\$25,000 State 581 for UTL in FY20 and \$3,000,000 NHPP/Toll Credit for CON in FY20)
- **Background:**
 - Repair and replace damaged & deteriorated roadway barriers in Philadelphia, Montgomery, & Chester counties
 - 2,500 linear feet of barriers on I-76 (Philadelphia and Montgomery Counties)
 - 5,800 linear feet of metal and concrete barriers on Route 82/Manor Road in Chester County



PA 82 (Chester County)

I-76 Schuylkill Expressway (Montgomery County)

I-76 Schuylkill Expressway (Philadelphia)





TIP ACTION | Proposed – PA

Agenda Item 5d

Recommend Board approval of PennDOT TIP Amendment request:

- **Districtwide Barrier Repair**
Add new \$3,025,000 project (\$25,000 State 581 for UTL in FY20 and \$3,000,000 NHPP/Toll Credit for CON in FY20)

Bus Purchase Program

SEPTA | Increase Funding

- **TIP Amendment**
- **Action:** Increase the Purchase phase by \$41,795,000; funding shifts will be made accordingly
- **Background:**
 - SEPTA is requesting amendments to the Bus Purchase Program and the Debt Service Program to add \$120,000,000 of loan funds and the requisite repayment
 - Borrowing will support ongoing procurement of 525 New Flyer 40-foot buses

Debt Service

SEPTA | Increase Funding and Scope Change

- **TIP Amendment**
- **Action:** Increase the Debt Service phase in FY20 by \$11,700,000 (\$9,360,000 Section 5307 / \$2,265,000 State 1514 / \$75,000 LOC) and add the Bus Purchase Program Debt Service to the description
- **Background:**
 - SEPTA will repay \$140,000,000 (principal plus interest) over 12 years
 - Borrowing will support ongoing procurement of 525 New Flyer 40-foot buses



TIP ACTION | Proposed – PA

Agenda Item 5e and 5f

Recommend Board approval of SEPTA TIP Amendment requests:

- **Bus Purchase Program**
Increase the Purchase phase by \$41,795,000; funding shifts will be made accordingly
- **Debt Service**
Increase the Debt Service phase in FY20 by \$11,700,000 (\$9,360,000 Section 5307 / \$2,265,000 State 1514 / \$75,000 LOC) and add the Bus Purchase Program Debt Service to the description



Thank You

Connect With Us!



www.dvrpc.org/TIP





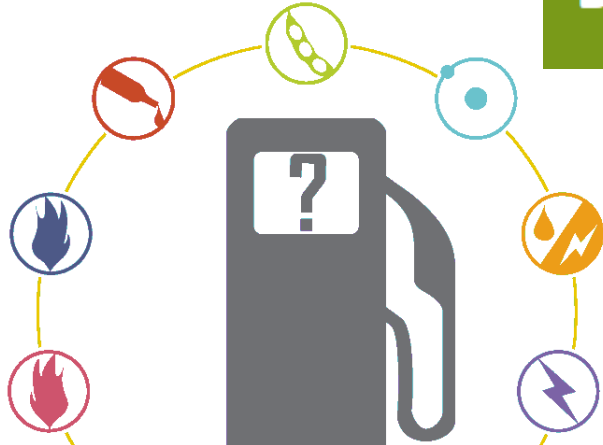
EV Planning Toolkit

Rob Graff

Manager, Office of Energy and Climate Change Initiatives

Delaware Valley Regional Planning Commission

Drive Electric Pennsylvania



Ready to Roll?

Overview of Challenges and Opportunities
for Alternative Fuel Vehicles
in the Delaware Valley



READY to ROLL!

Southeastern Pennsylvania's Regional
Electric Vehicle Action Plan

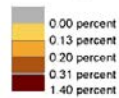
Volume I: Planning and Policy Recommendations

June 2013

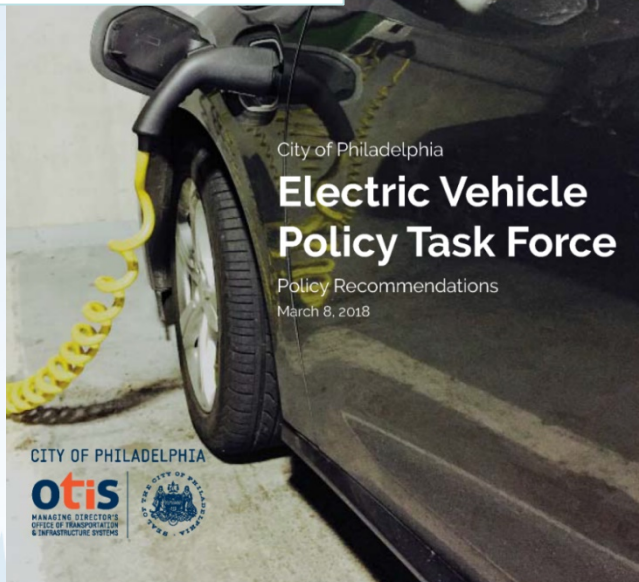
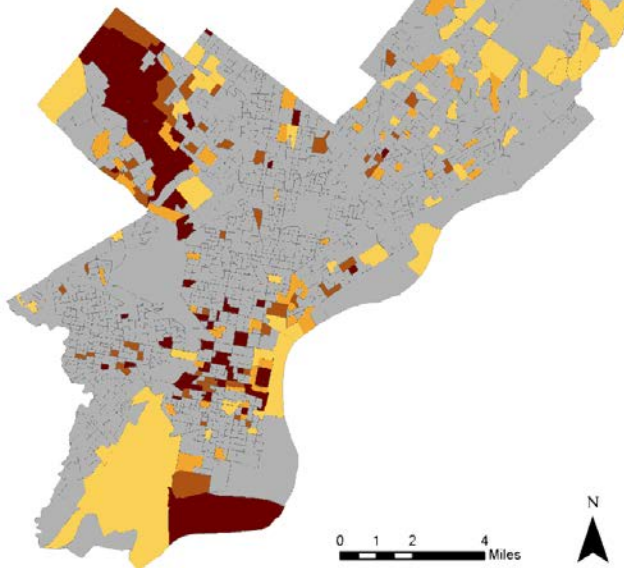


Percentage of PEVs in Philadelphia

Percentage PEV by Block Group



Source: PennDOT Registrations, October 2017



City of Philadelphia Electric Vehicle Policy Task Force

Policy Recommendations
March 8, 2018



Electric Vehicles in One Slide

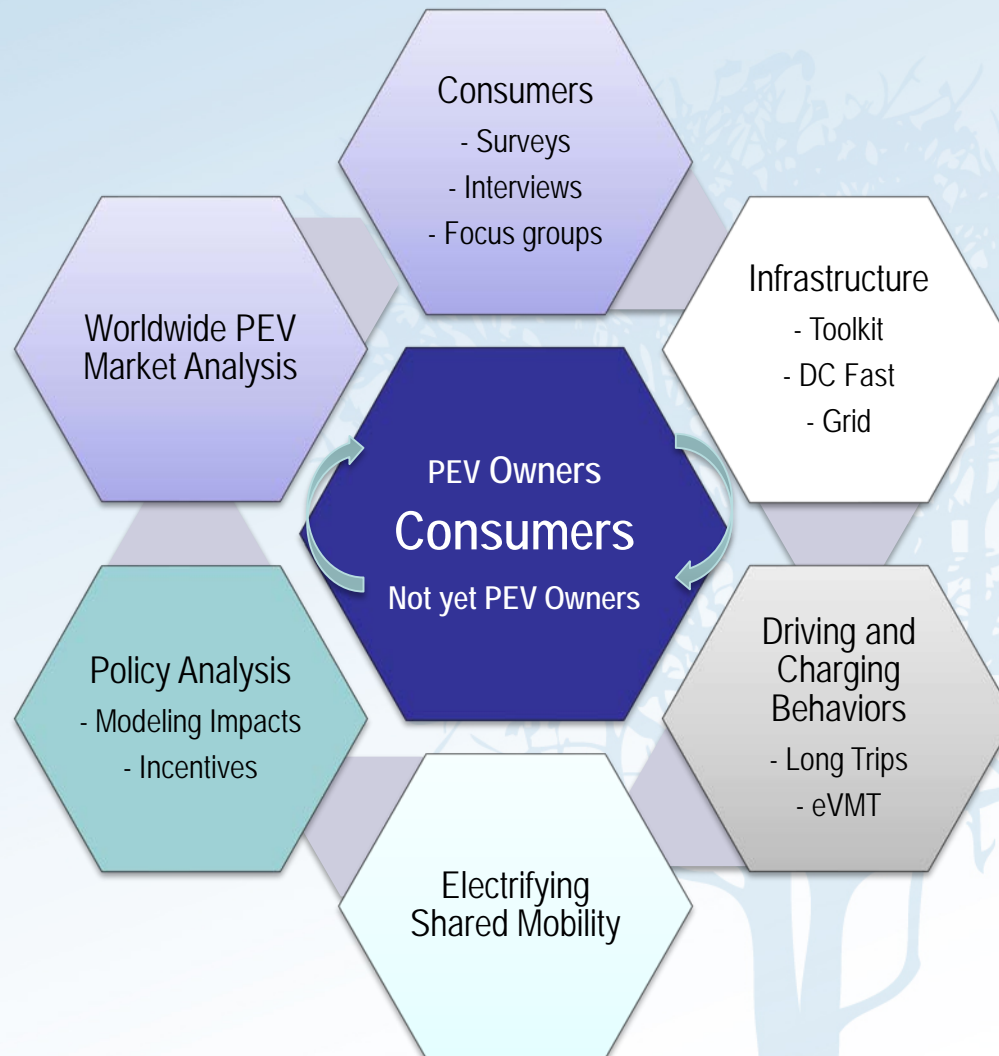
- Operate ~ the same as internal combustion cars.
- Fill battery with electricity rather than tank with gasoline
- Much longer fill time, but costs much less
- Generally fill when already parked at home or work
- Batteries cost more than a gas tank
- Electric drive much simpler, so lower maintenance
- Average range well over 200 miles and getting longer
- Some supplement with gas engine
- Term we are using: Plug-in Electric Vehicle or PEV

EV Planning Questions

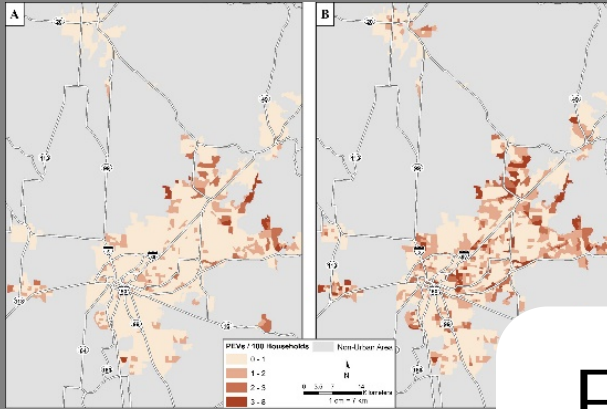
- How do we address tomorrow's – not yesterday's – needs?
- How do we:
 - Know how much paid charging we need?
 - Know enough geographic detail of demand for wise electric distribution systems planning?
 - Make sure we install the right kind of EV charging infrastructure in the right places?
 - Provide infrastructure that people want to be there, but that they are likely to use only very rarely?

Many Questions

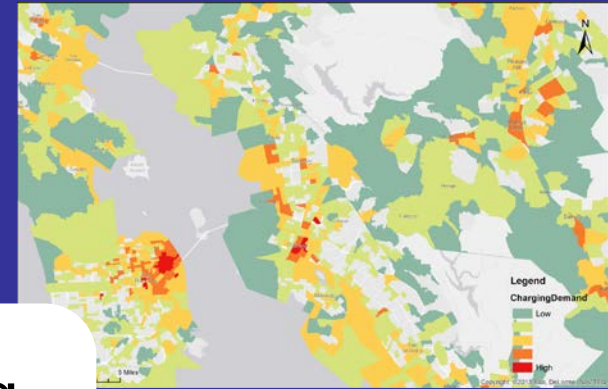
- Where will PEV owners live?
- Where will PEVs be charged?
- What is the expected demand for public and workplace charging?
- How does pricing charging to recover costs affect demand for public and workplace charging?
- What strategies are most effective to provide for charging?
- How do larger batteries and increased range affect behavior?



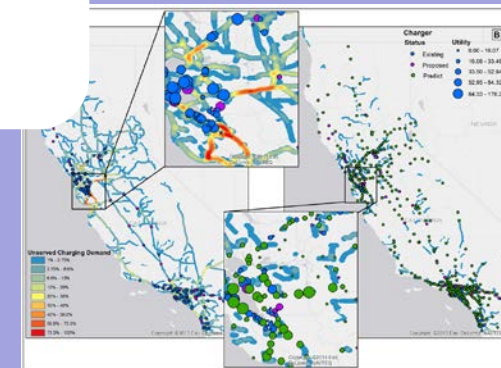
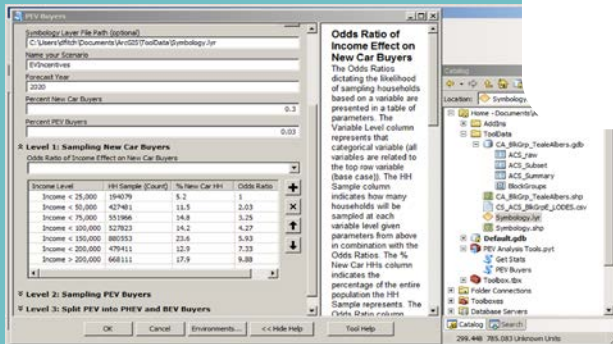
Market Forecast



Workplace Charging



EV Planning Toolkit



ArcGIS Interface Allows User to Test Scenarios

Fast Charging - Estimates Take into Account Existing Chargers

Market Analysis Tool

- Predicts spatial location of PEV owner households at census block group level
- Inputs include ACS, LODES, and PEV Sales/Ownership
- Received vehicle level data from both PennDOT and NJ DMV, with tremendous assistance from NJ DEP

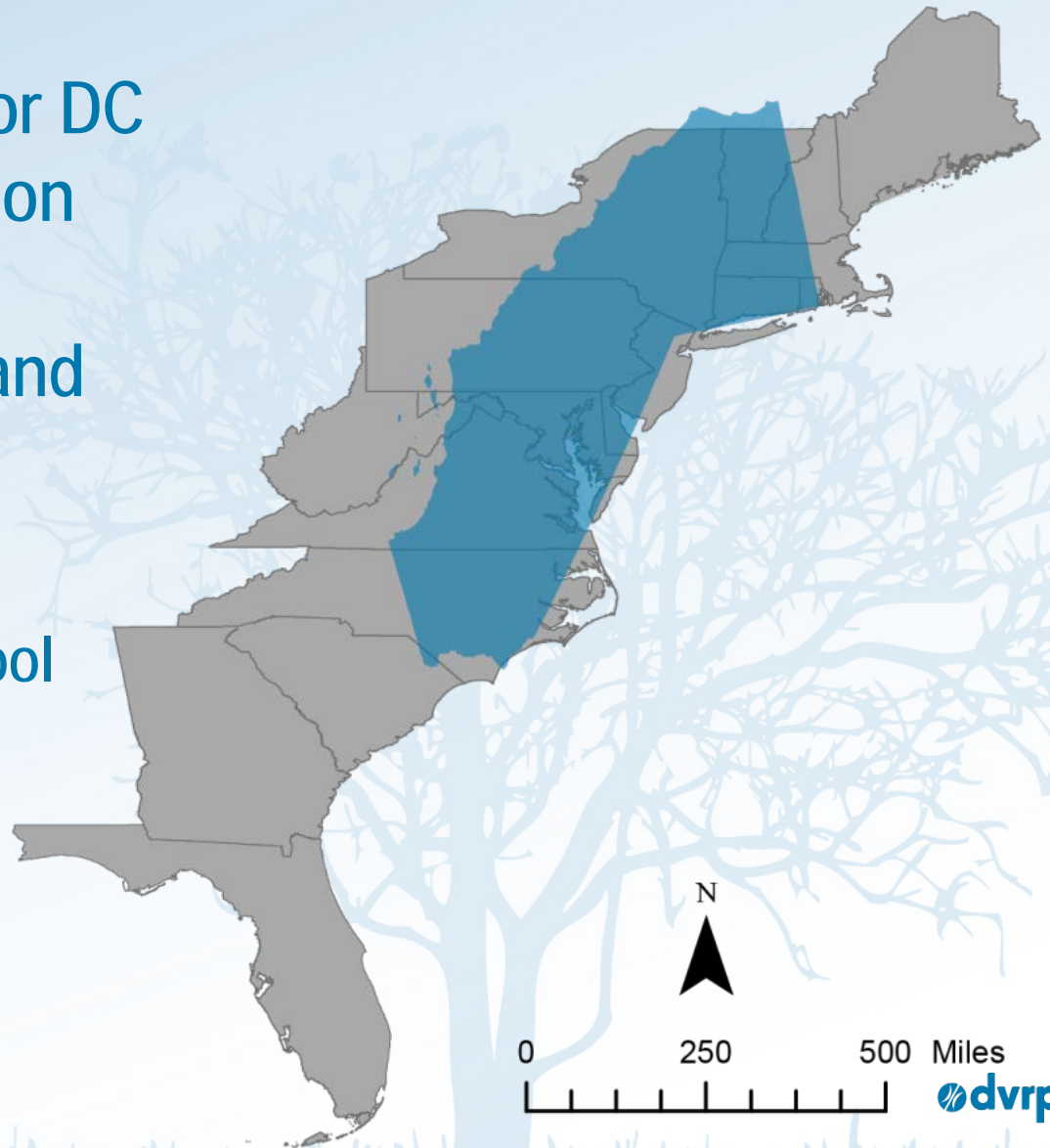
LODES = LEHD (Longitudinal Employer-Household Dynamic) Origin-Destination Employment Statistics

Workplace Charging Tool

- Predicts workplace charging demand by census block group
 - kWh of demand
 - Number of charging events
- Data inputs
 - Market Tool results — PEV ownership location
 - LODES and TDM data — workplaces and commuting distances
 - PEV Scenario — mix of PEV types and ranges
 - Pricing and frequency scenarios for charging

Fast Charging Analysis Tool

- Evaluates demand for DC fast charging based on travel patterns and demand at existing and proposed sites
- Data inputs
 - Results of Market Tool
 - Long trip data



Tool Results

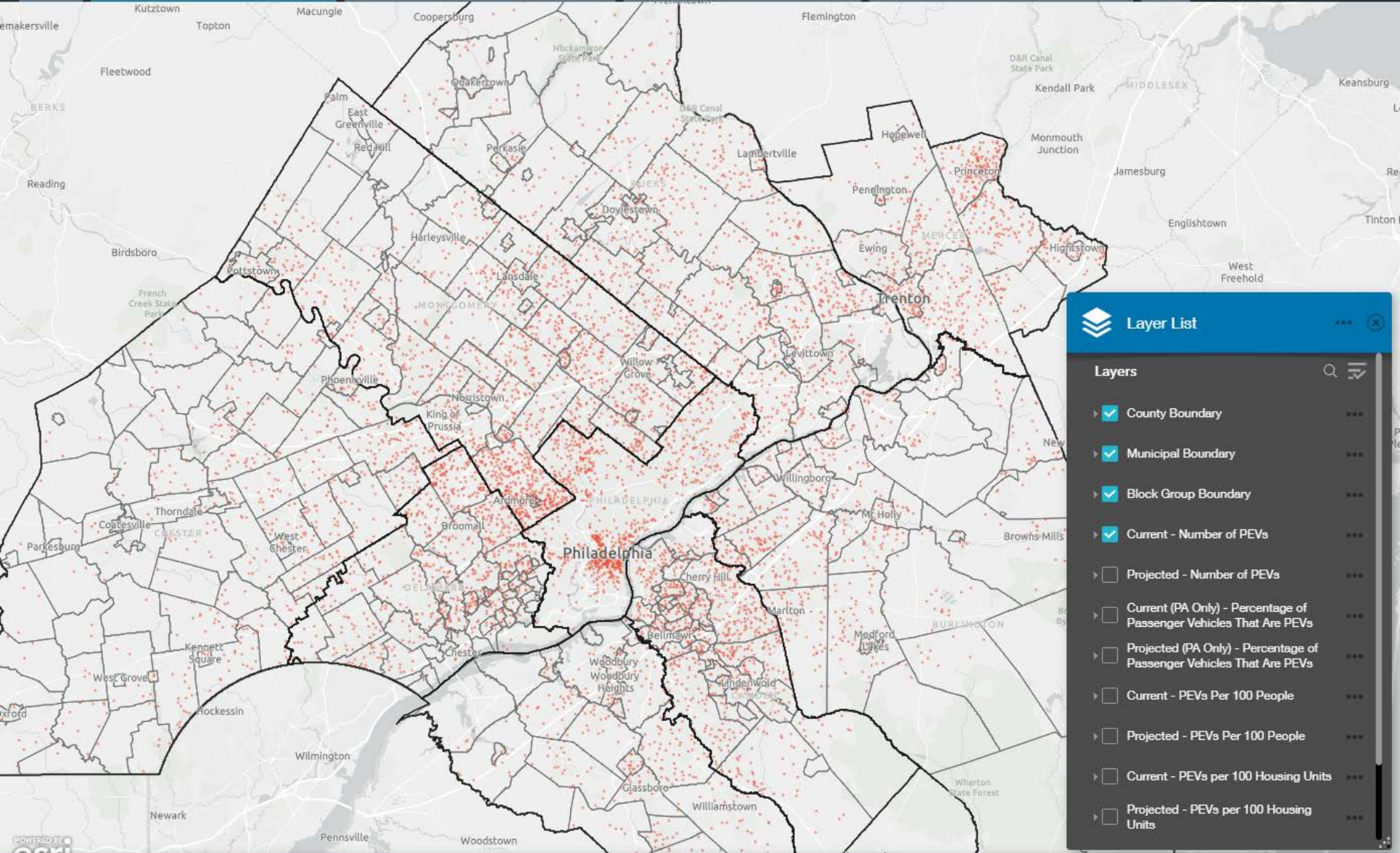
- Group Effort
 - Adam Beam – data analysis, tool development, scenarios, etc.
 - Chris Pollard – created the on-line interactive map
 - Gil Tal / UC Davis – tool and funding through the National Center for Sustainable Transportation (NCST)
- All results are available in an online, interactive map hosted on DVRPC's website.
 - Under internal review – please feel free to provide comments
 - [Review version \(https://tinyurl.com/DVRPC-EV-Toolkit\)](https://tinyurl.com/DVRPC-EV-Toolkit)

DVRPC/UC Davis Electric Vehicle Planning Toolkit for ArcGIS

Interactive Results

DVRPC | March 6, 2020

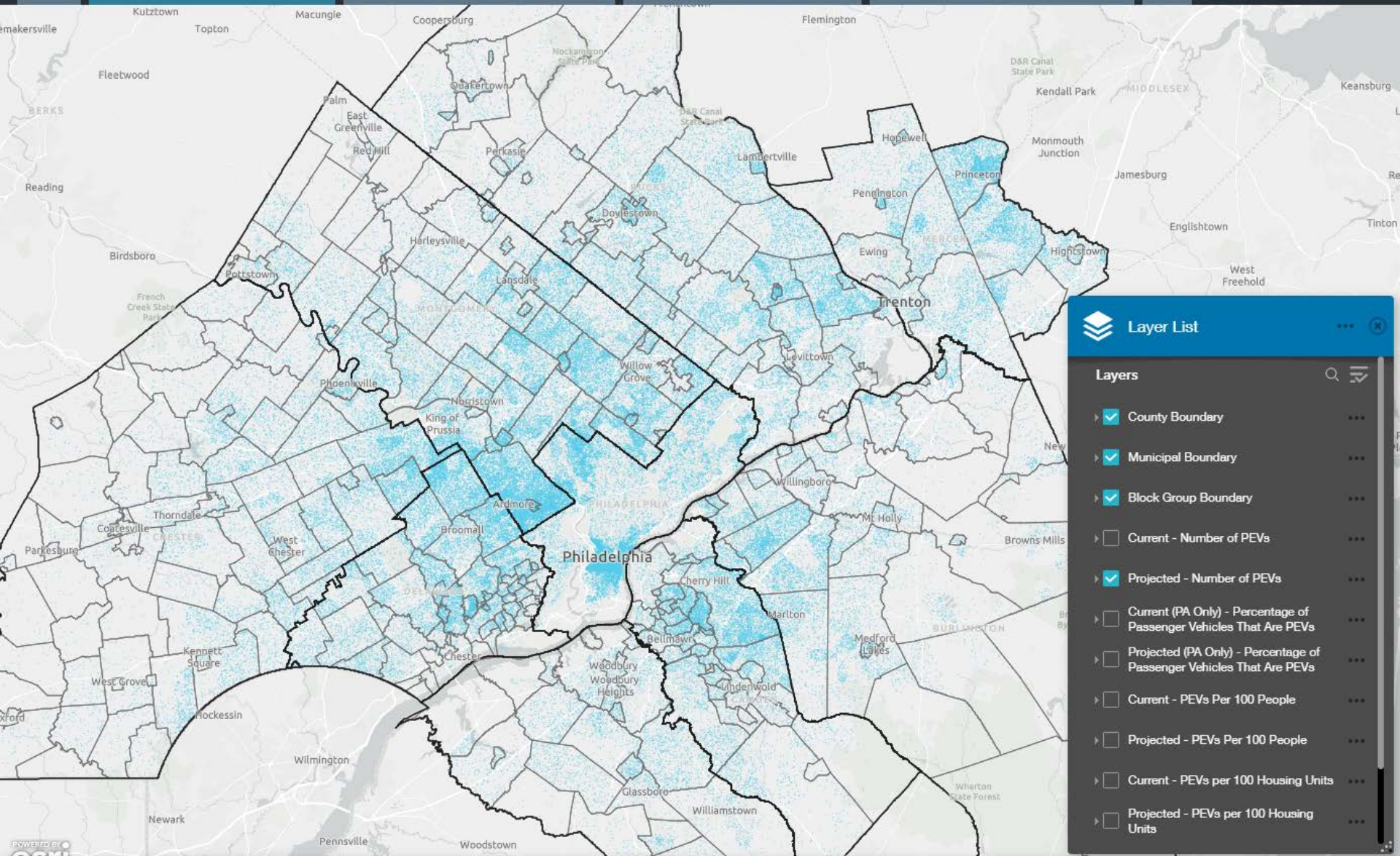




Layer List

- County Boundary
- Municipal Boundary
- Block Group Boundary
- Current - Number of PEVs
- Projected - Number of PEVs
- Current (PA Only) - Percentage of Passenger Vehicles That Are PEVs
- Projected (PA Only) - Percentage of Passenger Vehicles That Are PEVs
- Current - PEVs Per 100 People
- Projected - PEVs Per 100 People
- Current - PEVs per 100 Housing Units
- Projected - PEVs per 100 Housing Units

DVRPC/UC Davis Electric Vehicle Planning Toolkit for ArcGIS

[About](#)[DVRPC Region — PEV Distribution](#)[DVRPC Region — Workplace Charging](#)[Pennsylvania — PEV Distribution](#)[Pennsylvania — Workplace Charging](#)

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Layer List



Layers



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- Future - Number of PEVs ...
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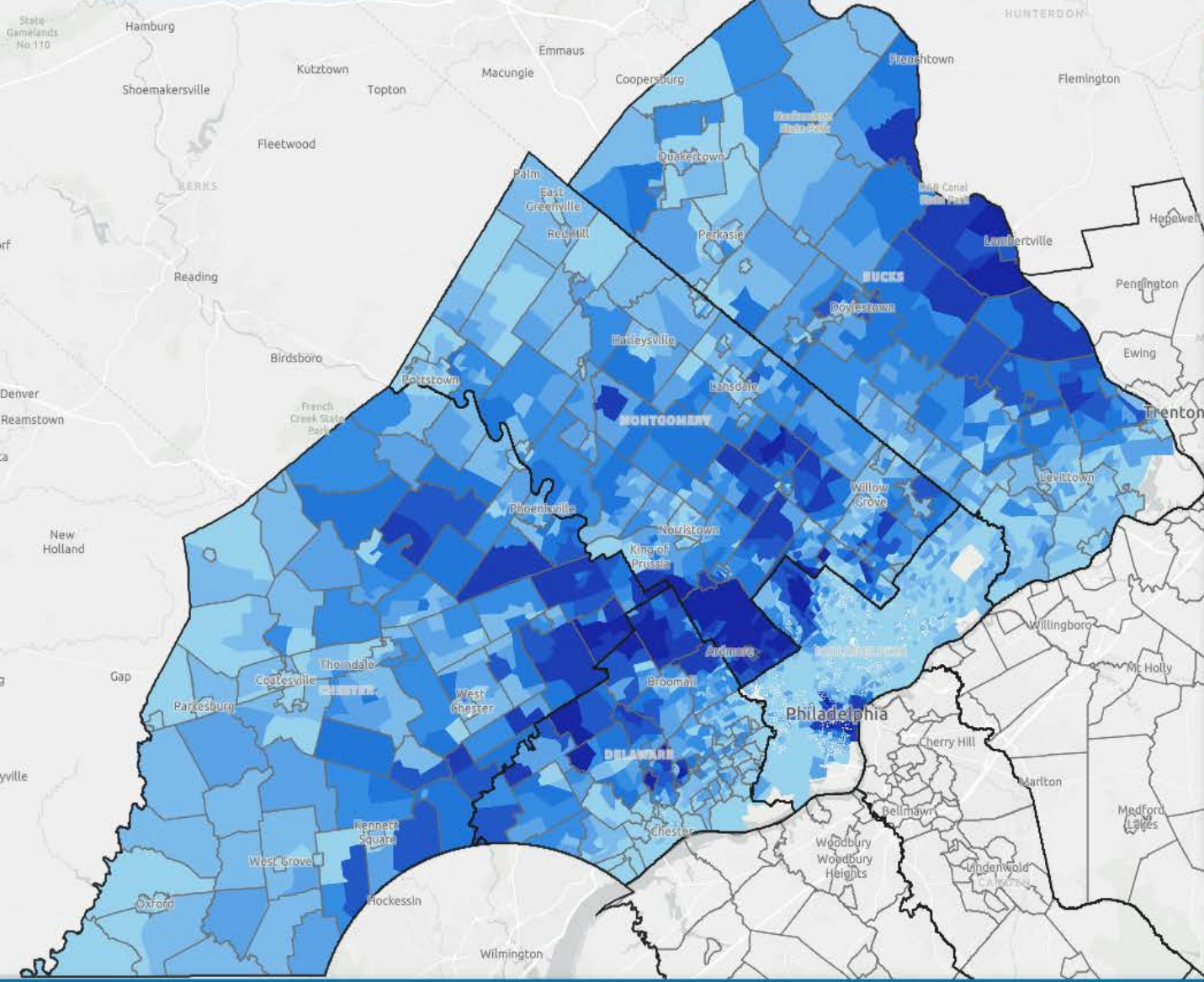


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- Future - PEVs per 100 Housing Units ...
- Current - PEVs per Sq. Mi. ...
- Future - PEVs per Sq. Mi. ...

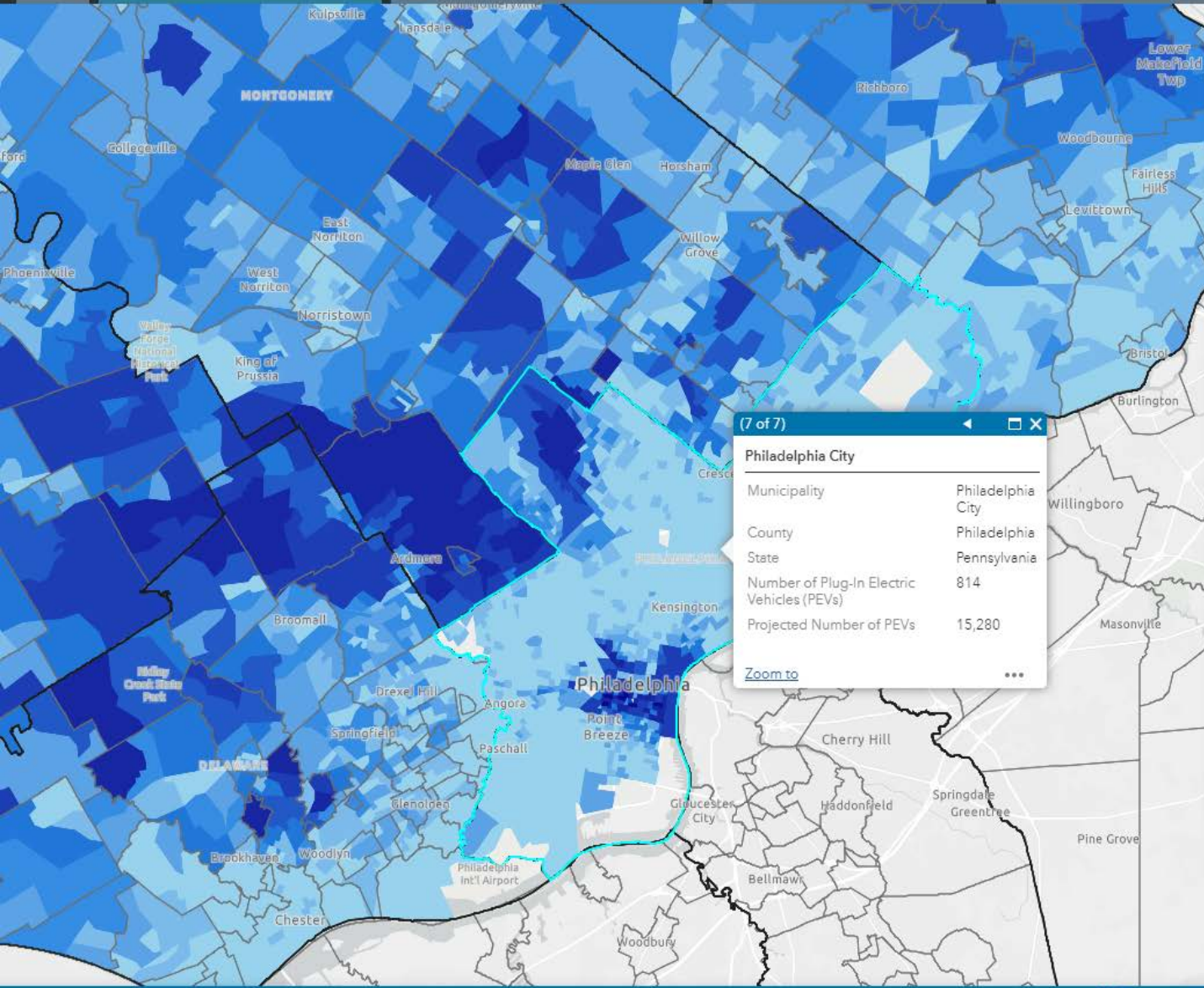
DVRPC/UC Davis Electric Vehicle Planning Toolkit for ArcGIS



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DVRPC/UC Davis Electric Vehicle Planning Toolkit for ArcGIS



(7 of 7)

Philadelphia City

Municipality	Philadelphia City
County	Philadelphia
State	Pennsylvania
Number of Plug-In Electric Vehicles (PEVs)	814
Projected Number of PEVs	15,280

[Zoom to](#) ...

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DVRPC/UC Davis Electric Vehicle Planning Toolkit for ArcGIS


Map Legend

Percentage of Passenger Vehicles That Are PEVs
 Scale applies to both 2017 and projected distribution at 5% PEV penetration



0 46

Number of PEVs per 100 People
 Scale applies to both 2017 and projected distribution at 5% PEV penetration



0 25

(1 of 3)

Block Group: 420912044002

Municipality Containing This Block Group	Lower Merion Township
Municipality GEOID	4209144976
Square Miles	0.60
Population	1,035
Housing Units	375
Jobs	310
Number of Passenger Vehicles	1,005

Plug-In Electric Vehicle Distribution

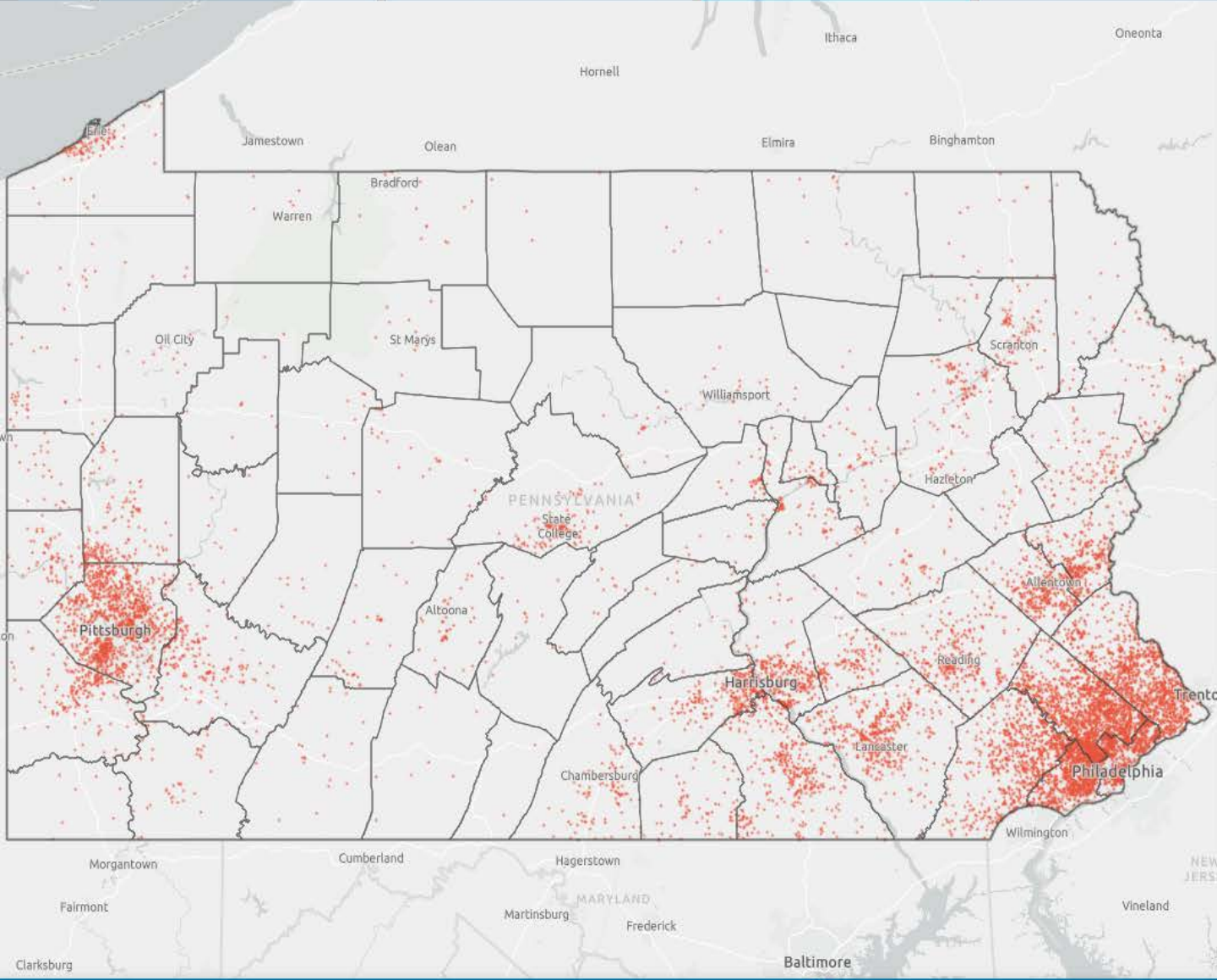
Number of Plug-In Electric Vehicles (PEVs)	10
Projected Number of PEVs	186
Current (PA Only) - Percentage of Passenger Vehicles That Are PEVs	1.00%
Projected (PA Only) - Percentage of Passenger Vehicles That Are PEVs	18.51%

[Zoom to](#)

Layer List

Layers

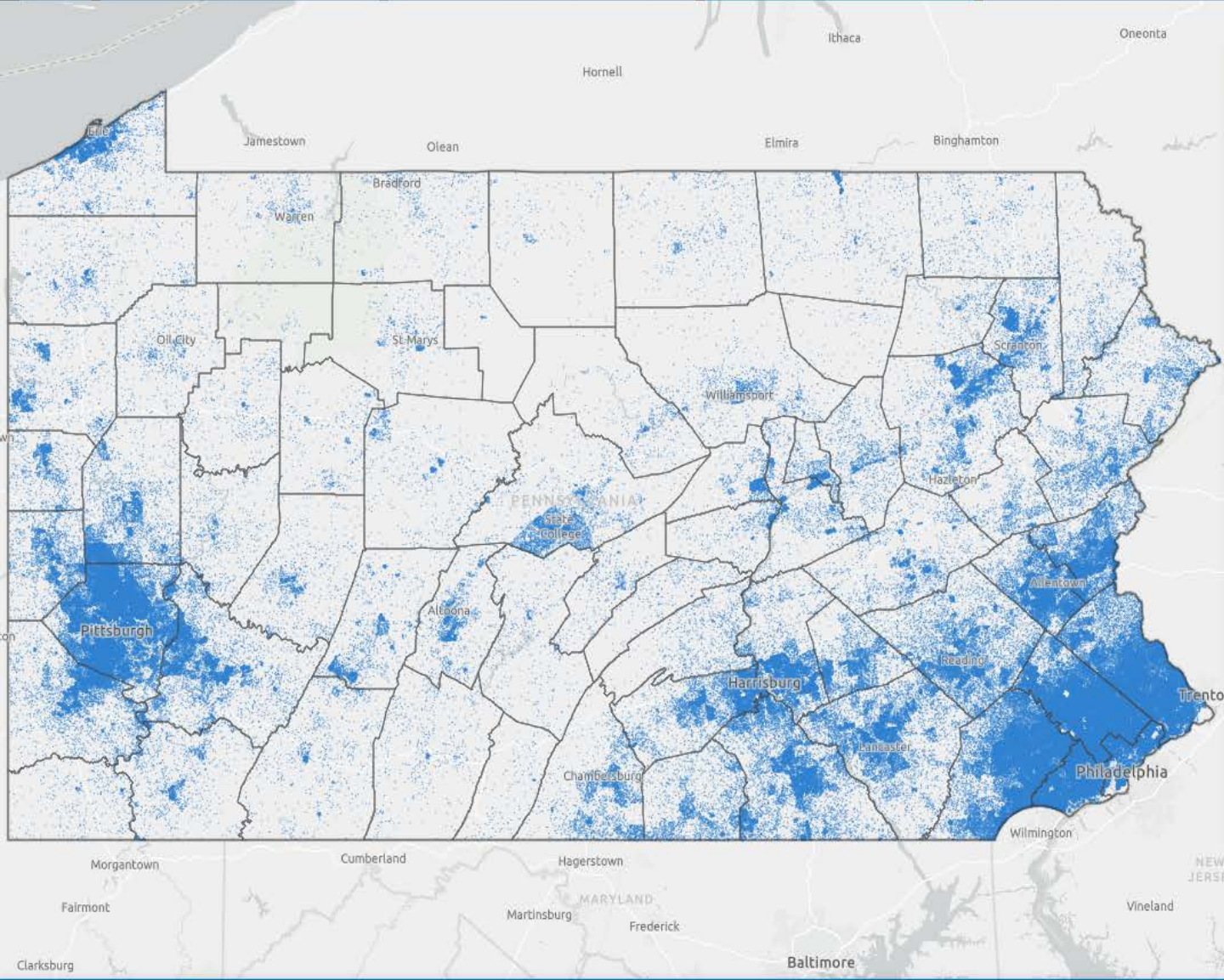
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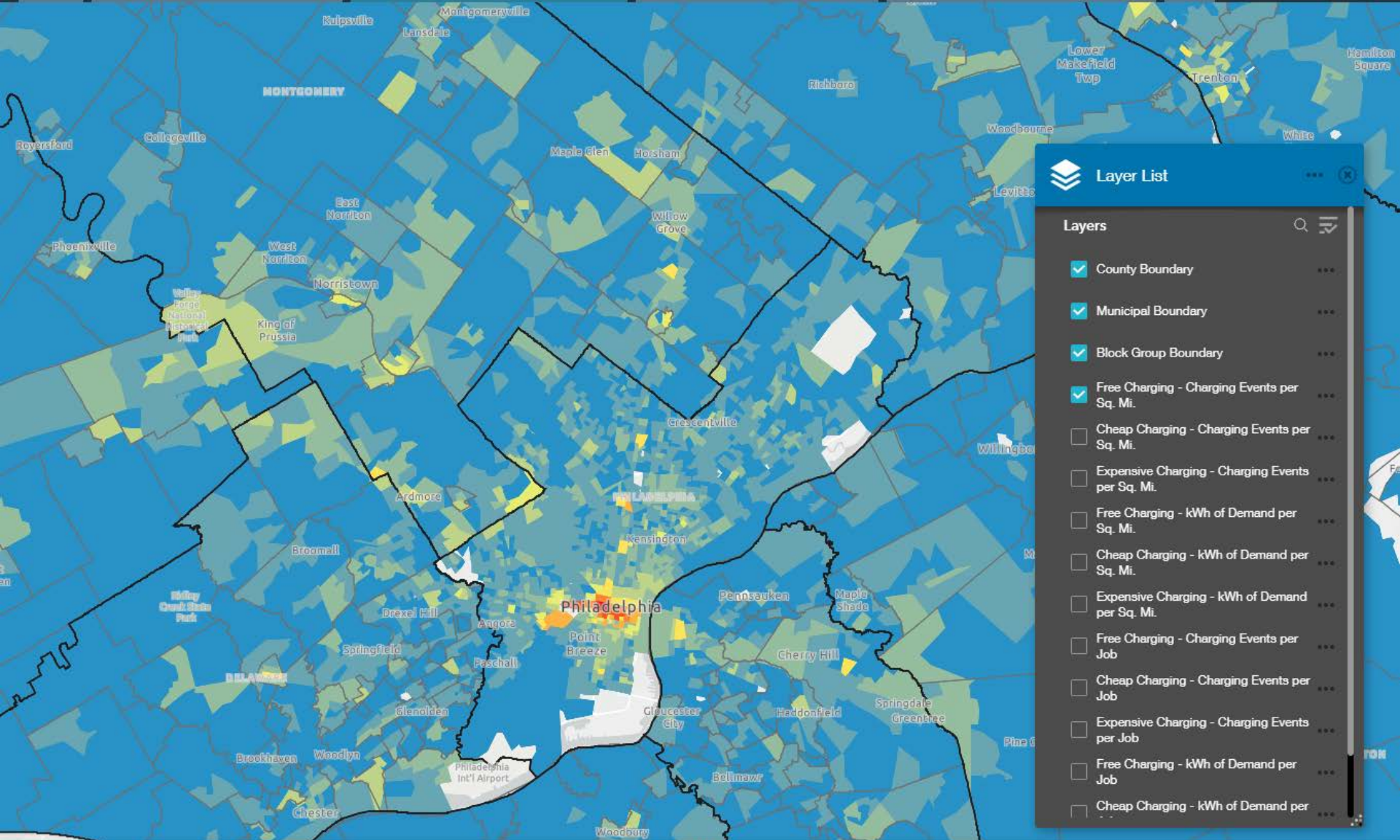
- State Boundary
- County Boundary
- Municipal Boundary (Zoom in to Display and Identify PEV Data)
- Block Group Boundary (Zoom in to Display and Identify)
- Current - Number of Passenger Electrical Vehicles (PEVs)
- Projected - Number of Passenger Electrical Vehicles (PEVs)
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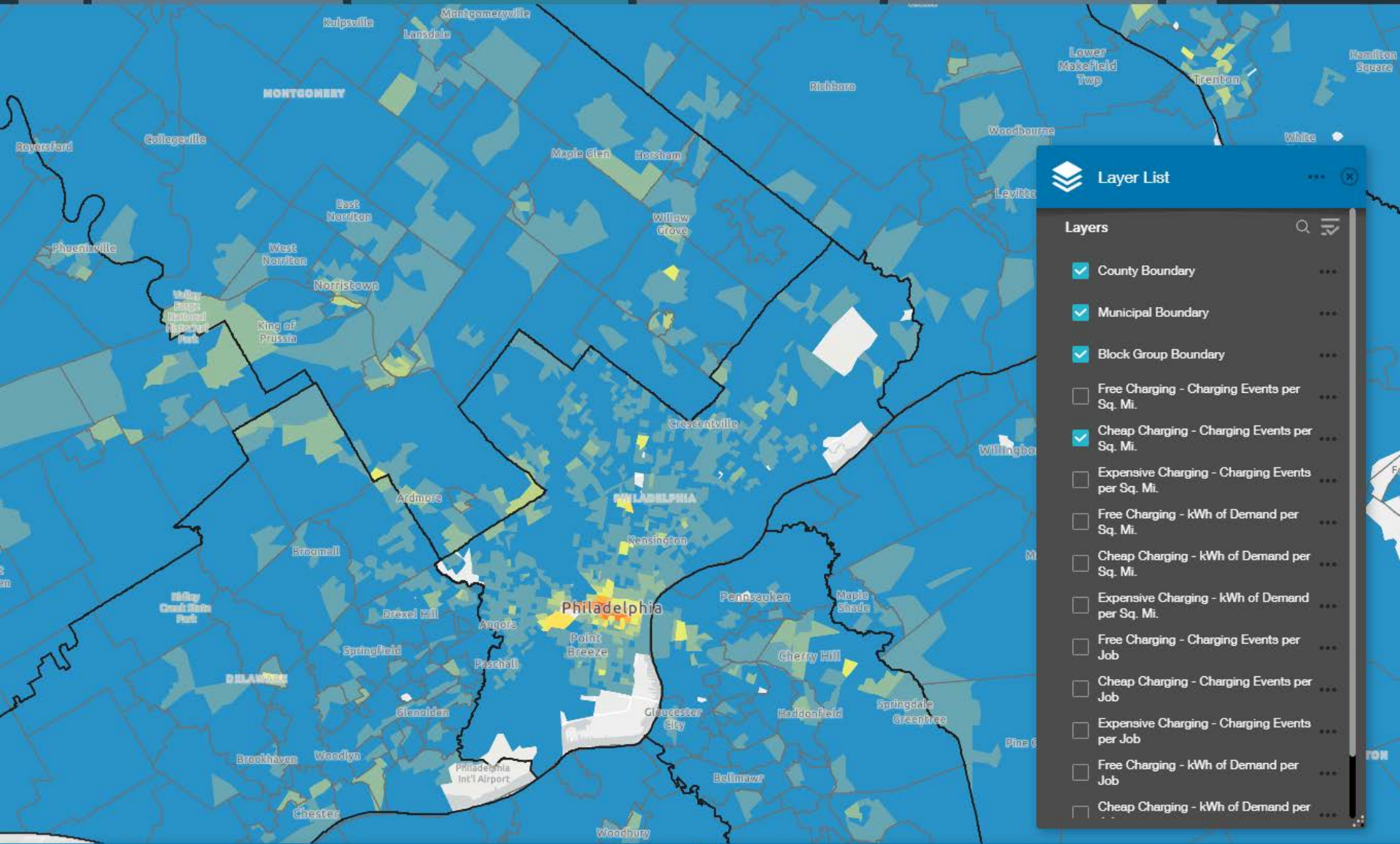


Layer List

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- County Boundary
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- Free Charging - Charging Events per Sq. Mi.
- Cheap Charging - Charging Events per Sq. Mi.
- Expensive Charging - Charging Events per Sq. Mi.
- Free Charging - kWh of Demand per Sq. Mi.
- Cheap Charging - kWh of Demand per Sq. Mi.
- Expensive Charging - kWh of Demand per Sq. Mi.
- Free Charging - Charging Events per Job
- Cheap Charging - Charging Events per Job
- Expensive Charging - Charging Events per Job
- Free Charging - kWh of Demand per Job
- Cheap Charging - kWh of Demand per Job

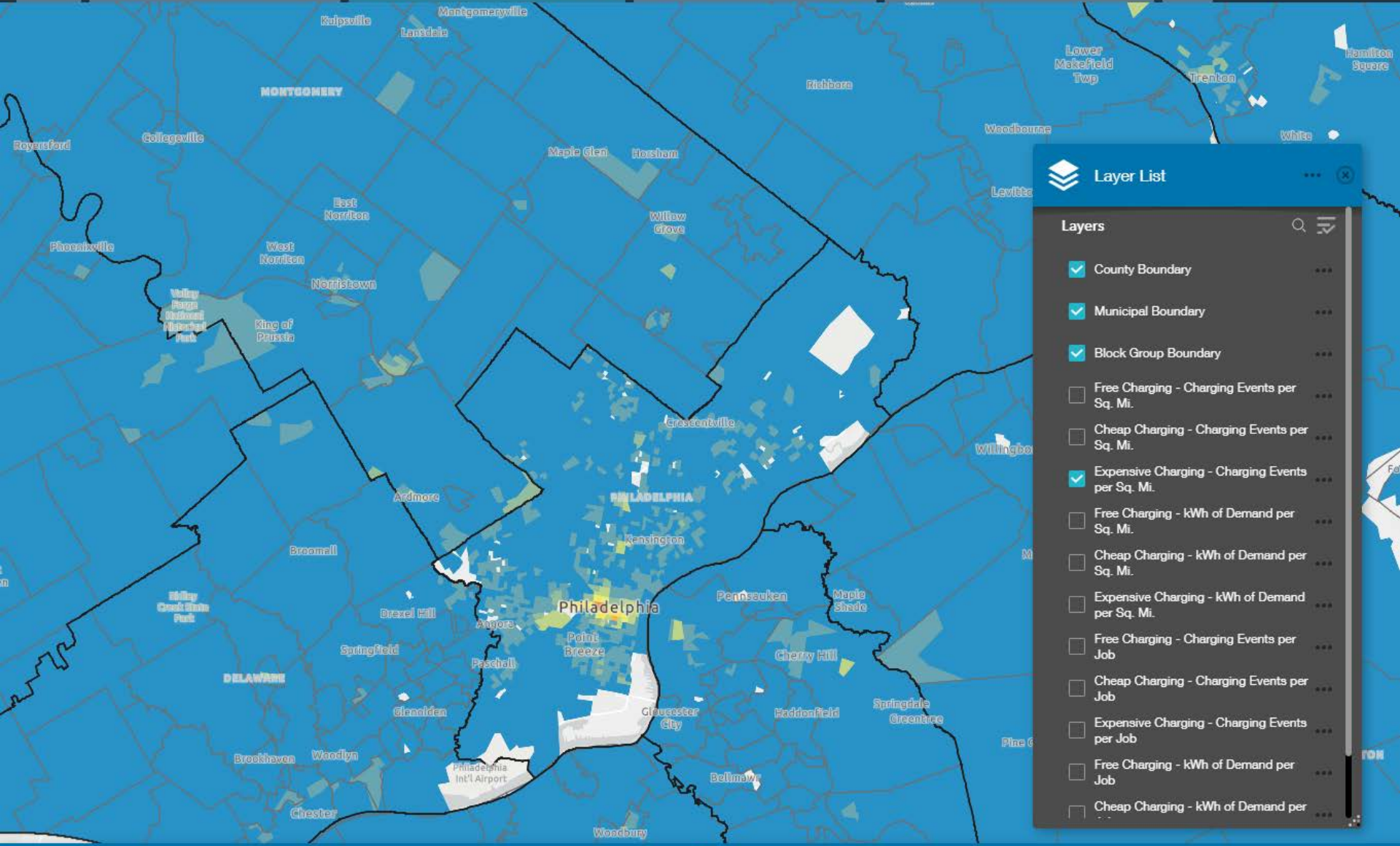
Workplace Charging Demand



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- Free Charging - kWh of Demand per Job
- Cheap Charging - kWh of Demand per Job



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Workplace Charging Demand



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Workplace Charging Demand



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- Free Charging - kWh of Demand per Job
- Expensive Charging - kWh of Demand per Job

Opacity: 0% to 100% (Set to 50%)

Transparency

Set visibility range

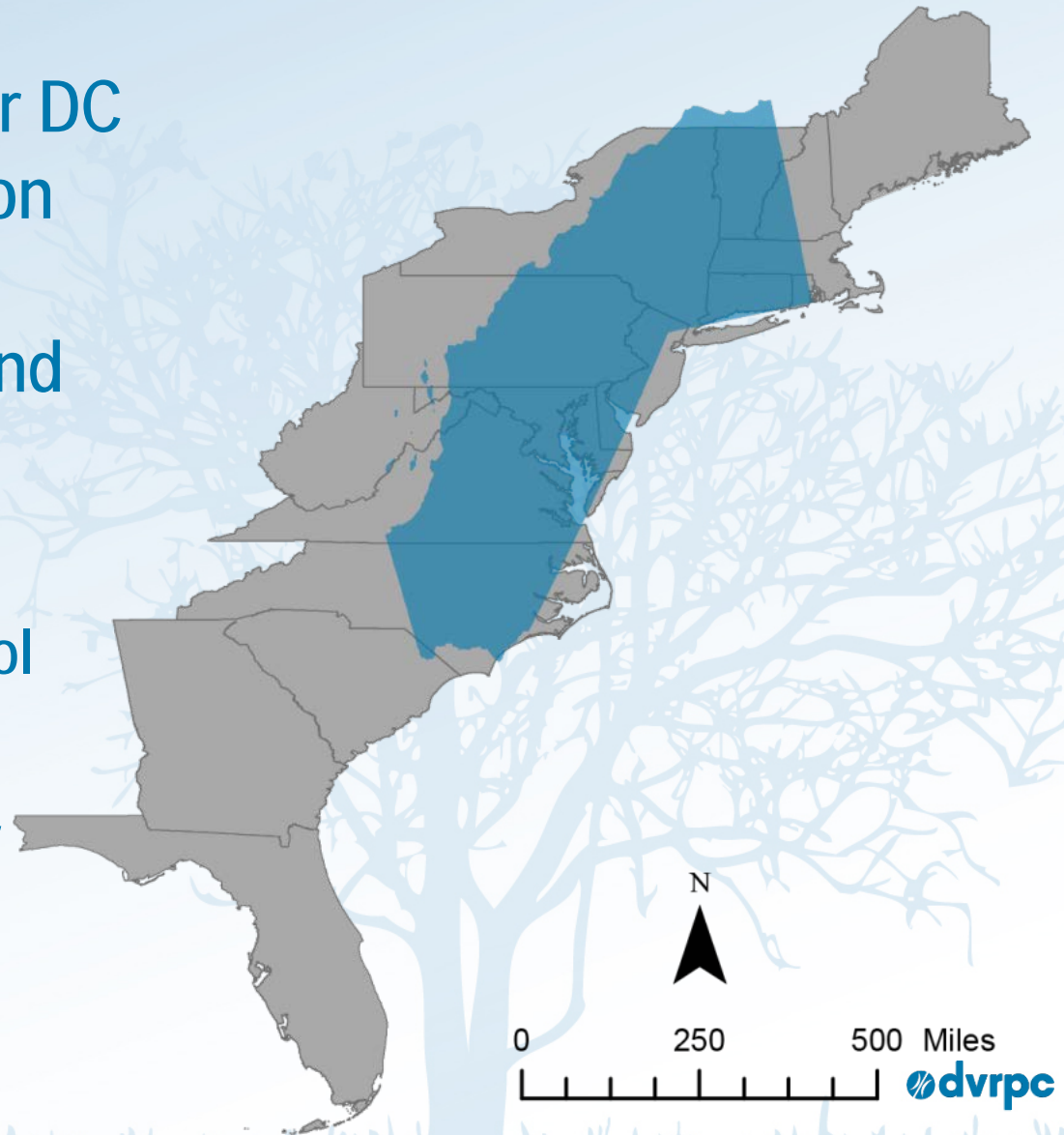
Move up

Move down

Show item details

Fast Charging Analysis Tool

- Evaluates demand for DC fast charging based on travel patterns and demand at existing and proposed sites
- Data inputs
 - Results of Market Tool
 - Long trip data
- Potential opportunity with INRIX data



Next Steps

- Update data to gauge progress
- Use to support partners and stakeholders
 - State governments
 - Regional planners
 - EDCs
 - Local governments
 - Businesses
 - Developers
 - EV charging companies
- Calibrate Fast Charging Tool for east coast
- Integrate into on-line EV resource kit

Thank you!

Questions/Comments/Discussion

Rob Graff

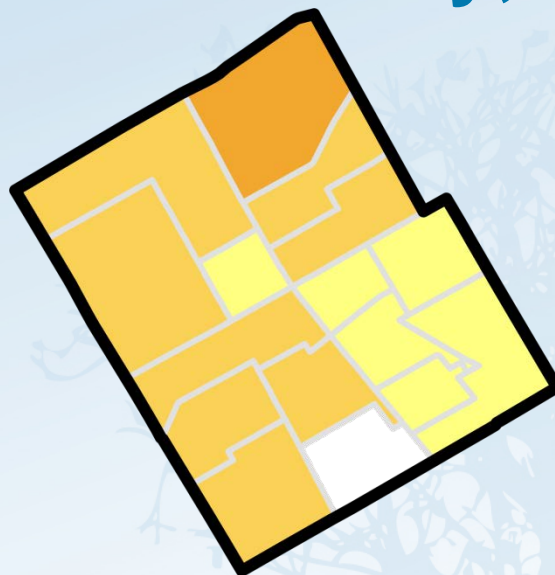
rgraff@dvrpc.org

215-238-2826

Preliminary/Illustrative Results – Pilot Web Tool with West Chester Borough, Chester County, PA



8 Total PEVs 2017
Dark blue = more vehicles
6,678 total passenger vehicles



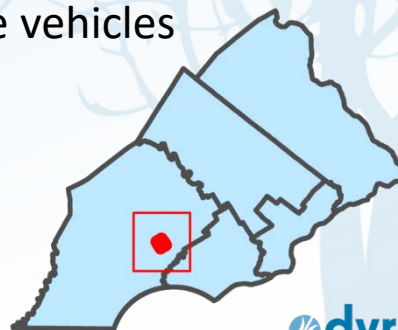
526 PEVs when 341,000 PEVs are registered in Southeastern PA
Darker = more vehicles



Projected Workplace Charging Demand

- 3,147 kWh per day
- 526 events per day

Blue = Less charging
Yellow = More charging



Eastwick Intermodal Center

REGIONAL TECHNICAL
COMMITTEE

MARCH 10, 2020

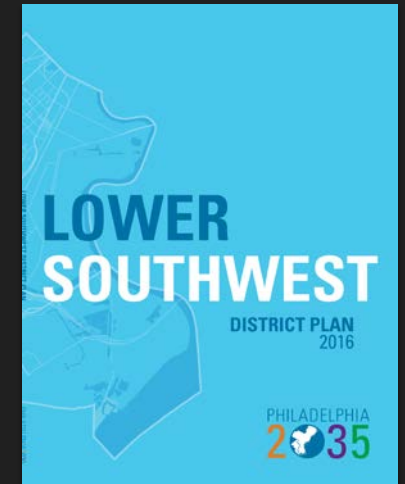
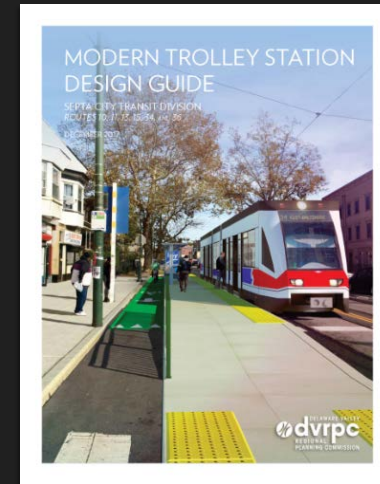


Project Background

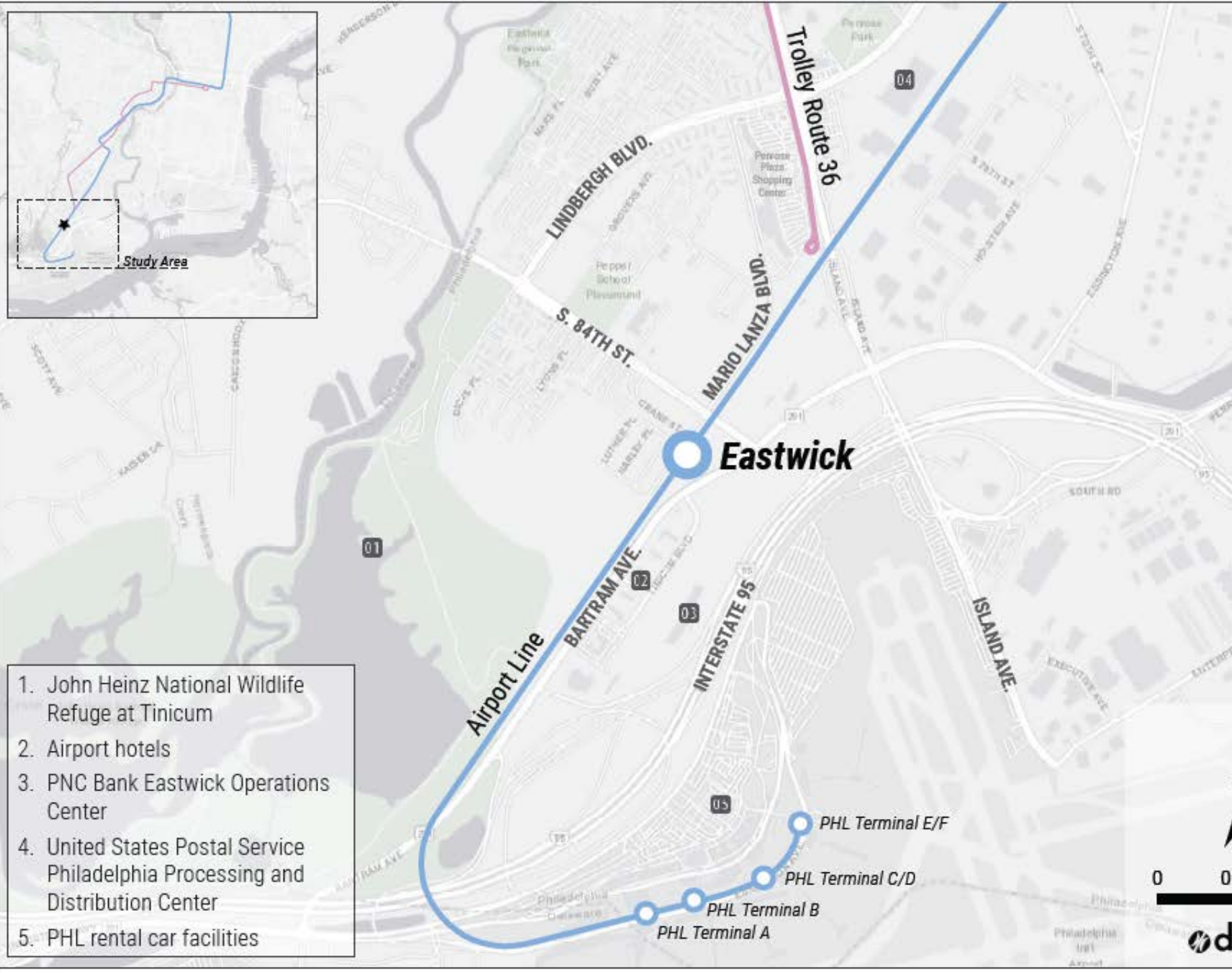
Planning Support for Trolley Modernization (ongoing)

Lower Southwest District Plan (2016)

Lower Eastwick Public Land Strategy (2019)



Where is Eastwick?

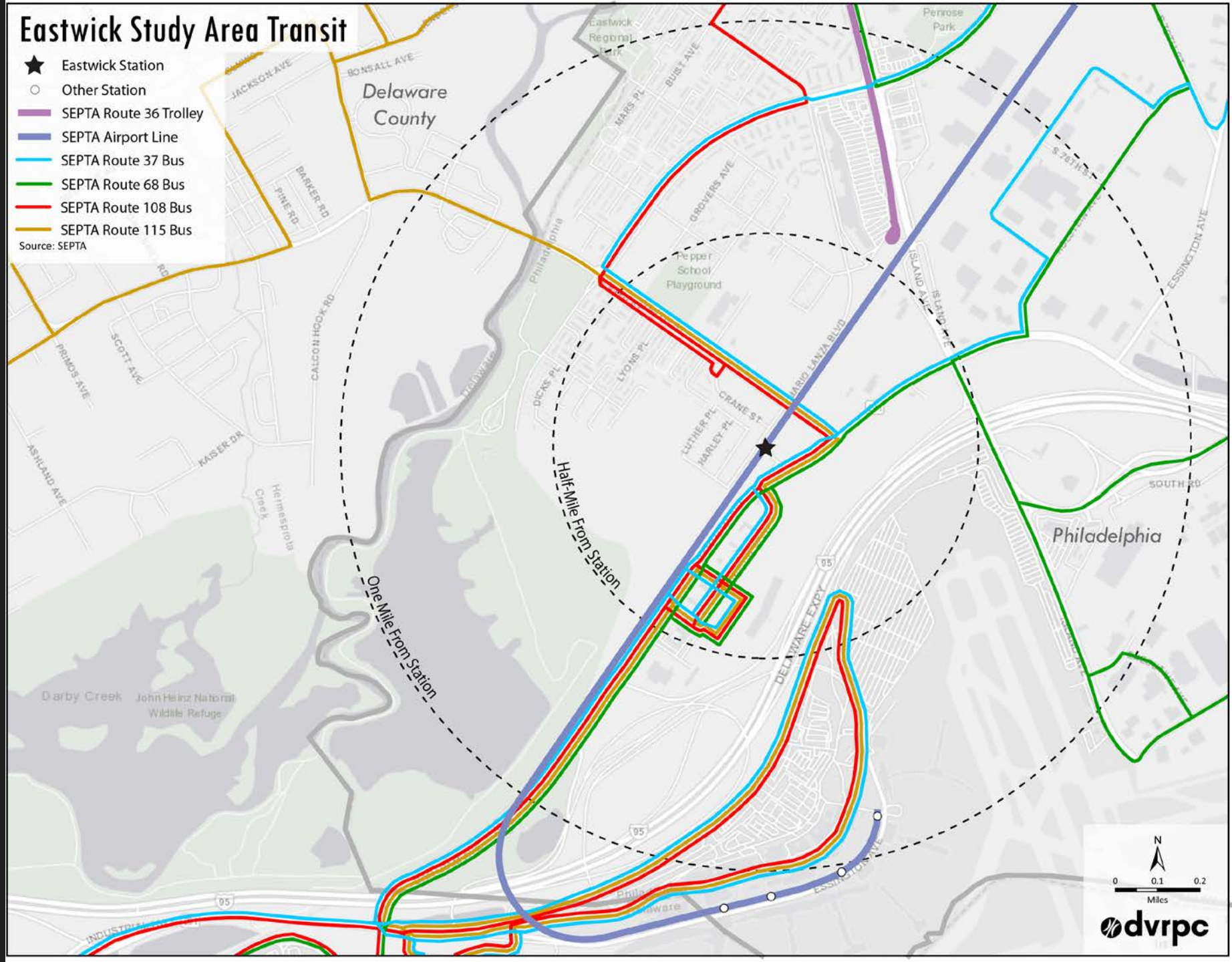


1. John Heinz National Wildlife Refuge at Tinicum
2. Airport hotels
3. PNC Bank Eastwick Operations Center
4. United States Postal Service Philadelphia Processing and Distribution Center
5. PHL rental car facilities

Lots of transit, but it doesn't all work seamlessly.

Eastwick Study Area Transit

- ★ Eastwick Station
 - Other Station
 - SEPTA Route 36 Trolley
 - SEPTA Airport Line
 - SEPTA Route 37 Bus
 - SEPTA Route 68 Bus
 - SEPTA Route 108 Bus
 - SEPTA Route 115 Bus
- Source: SEPTA





EASTWICK TROLLEY LOOP

1/2 mile

EASTWICK STATION

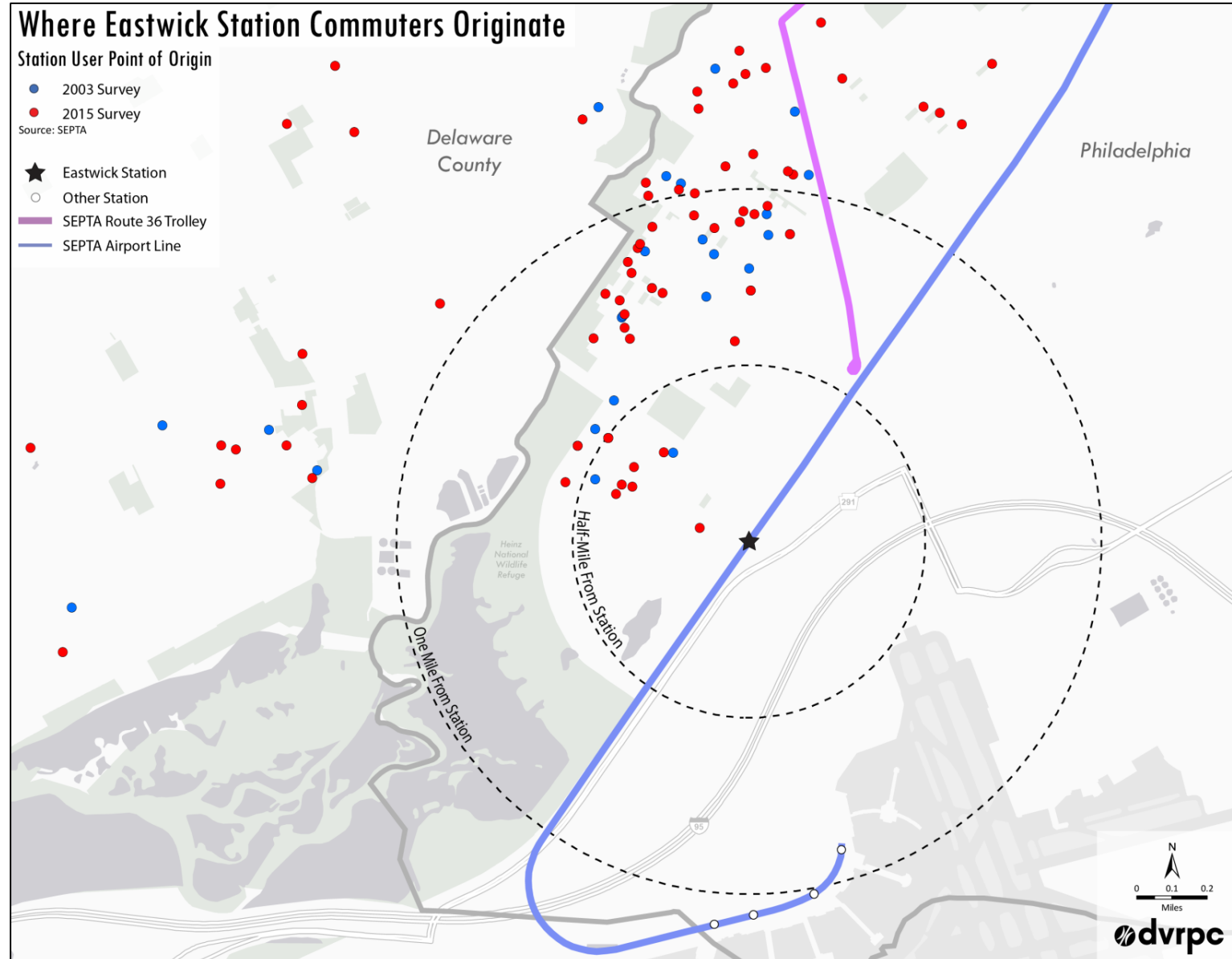


Eastwick Station – Airport Line

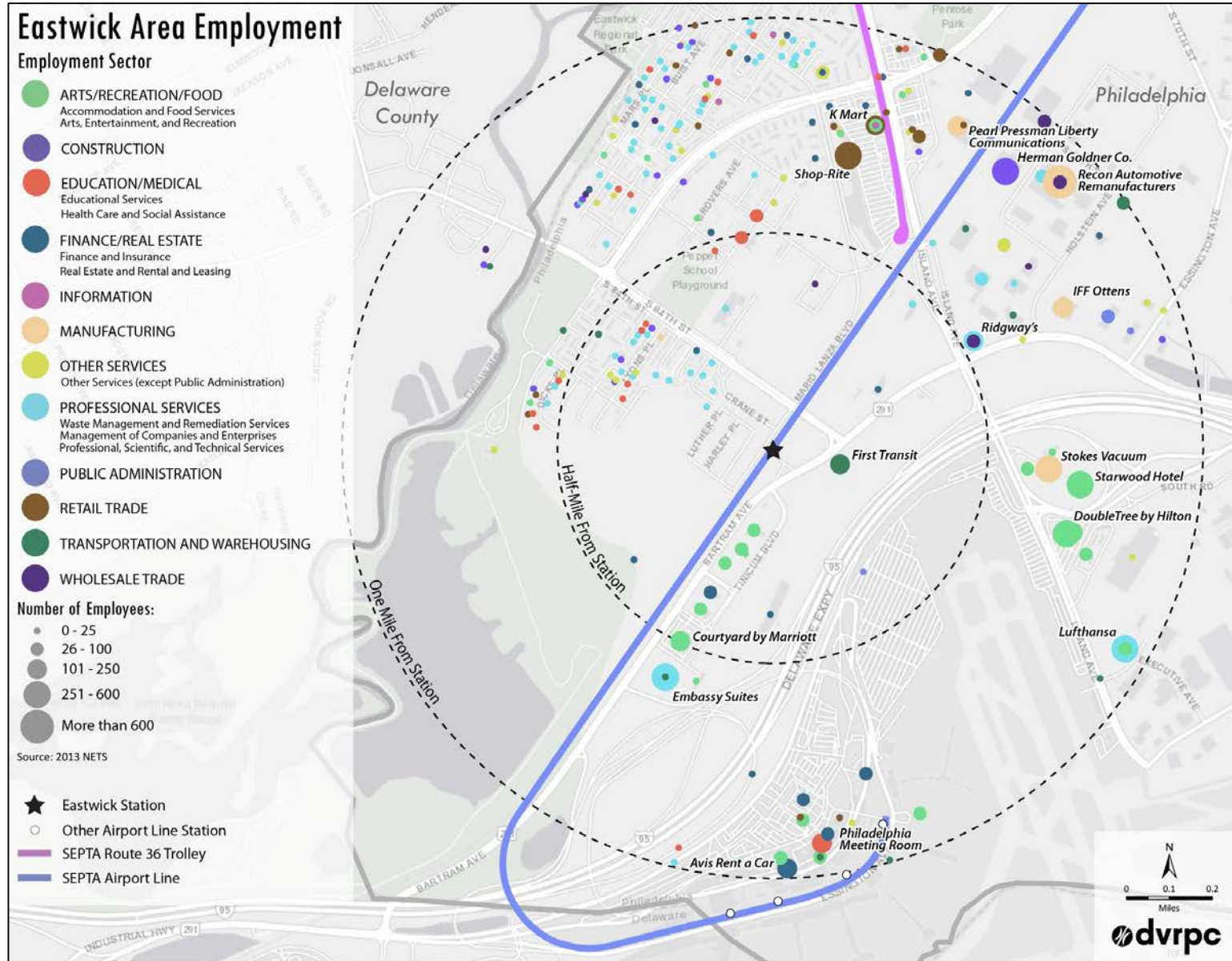
How is Eastwick Station used today?

Eastwick Station: Average Weekday Ridership

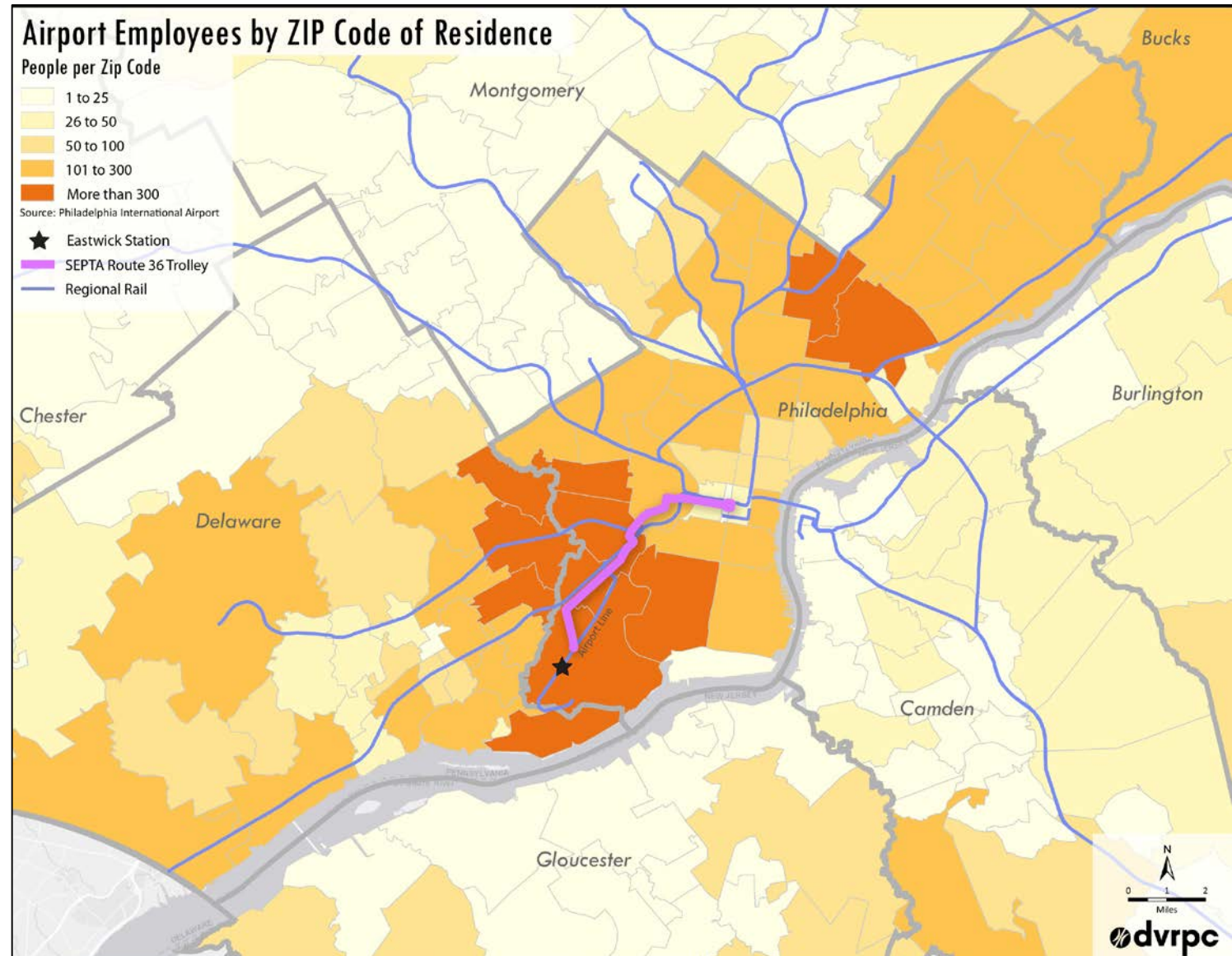
Year	Inbound to Center City		Outbound to Airport	
	Boards	Alights	Boards	Alights
2011	336	7	5	334
2013	364	10	3	411
2015	395	3	4	403
2017	348	2	6	398



The Eastwick area is an employment destination.



Many airport-
area workers live
nearby.





Eastwick Loop – Trolley Route 36



EASTWICK TROLLEY LOOP

1/2 mile

EASTWICK STATION



100 ft.



Site Plan

Accessibility

Pedestrian and bicycle enhancements

Freight separation

TOD opportunities



100 ft.



86TH ST.

EASTWICK AVE.

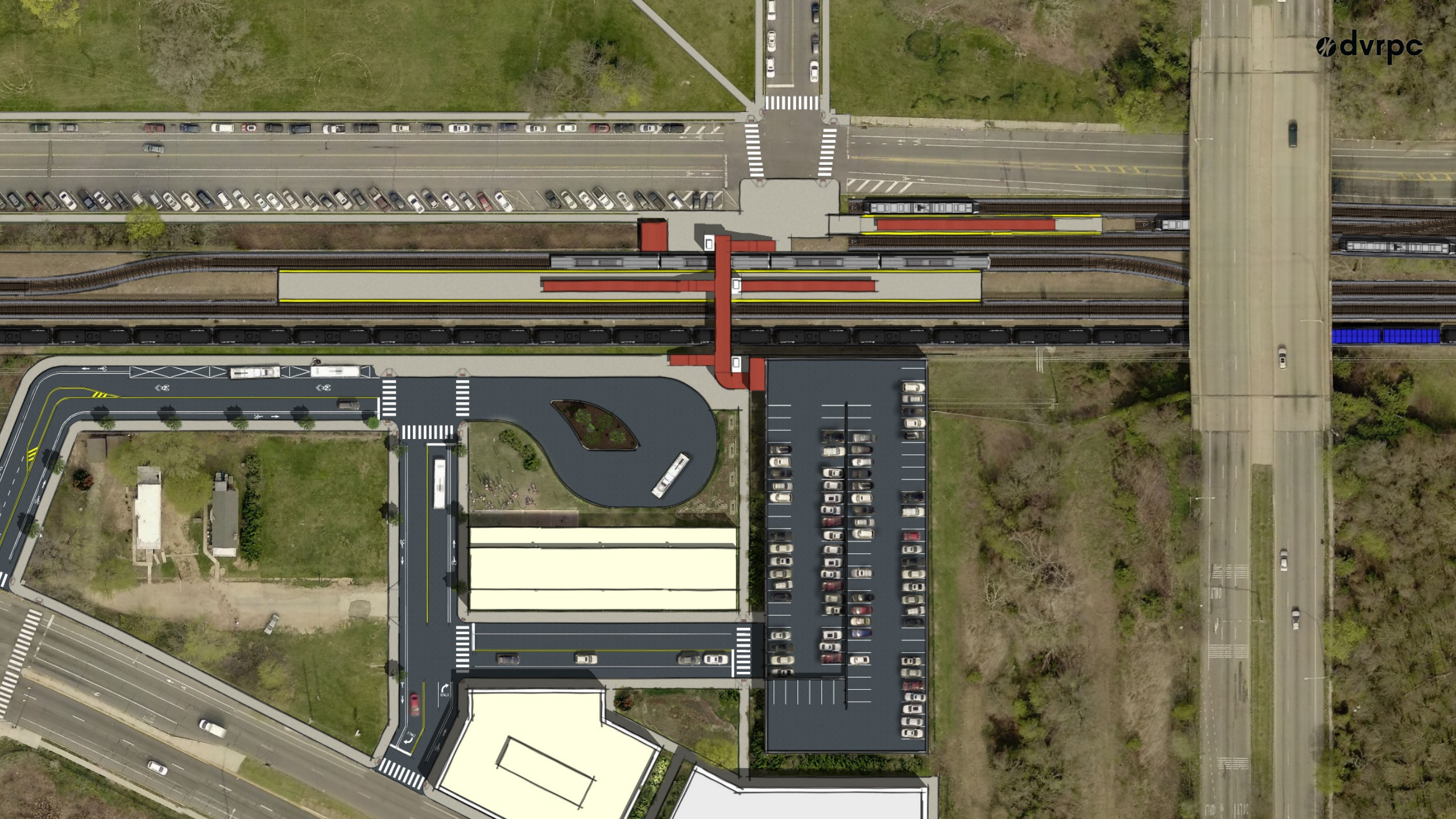
MARIO LANZA BLVD.

CRANE ST.

84TH ST.

BARTRAM AVE

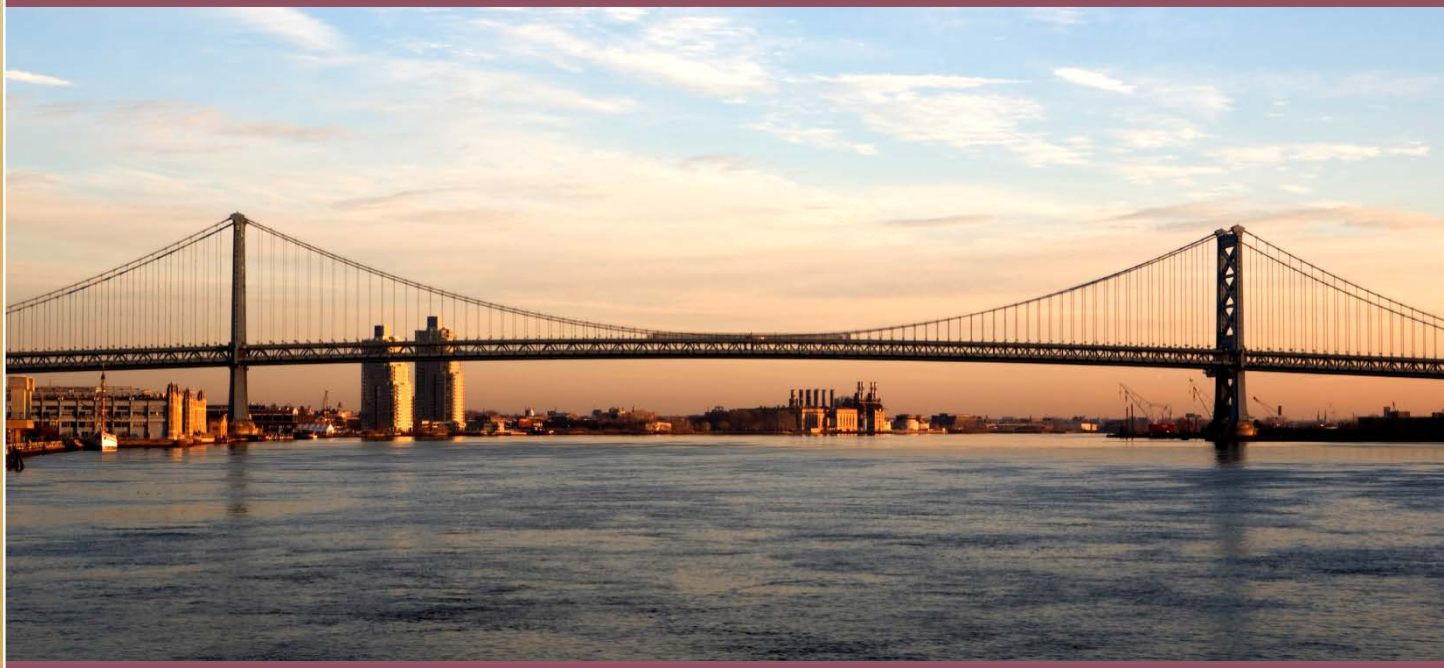
TINICUM BLVD.



Upcoming Projects

- TROLLEY MODERNIZATION
- AIRPORT AREA TRANSIT MASTER PLAN
- SEPTA BUS NETWORK REDESIGN

INRIX Truck Trip Data



Matt Gates

*Manager, Office of
Travel Trends &
Forecasts*

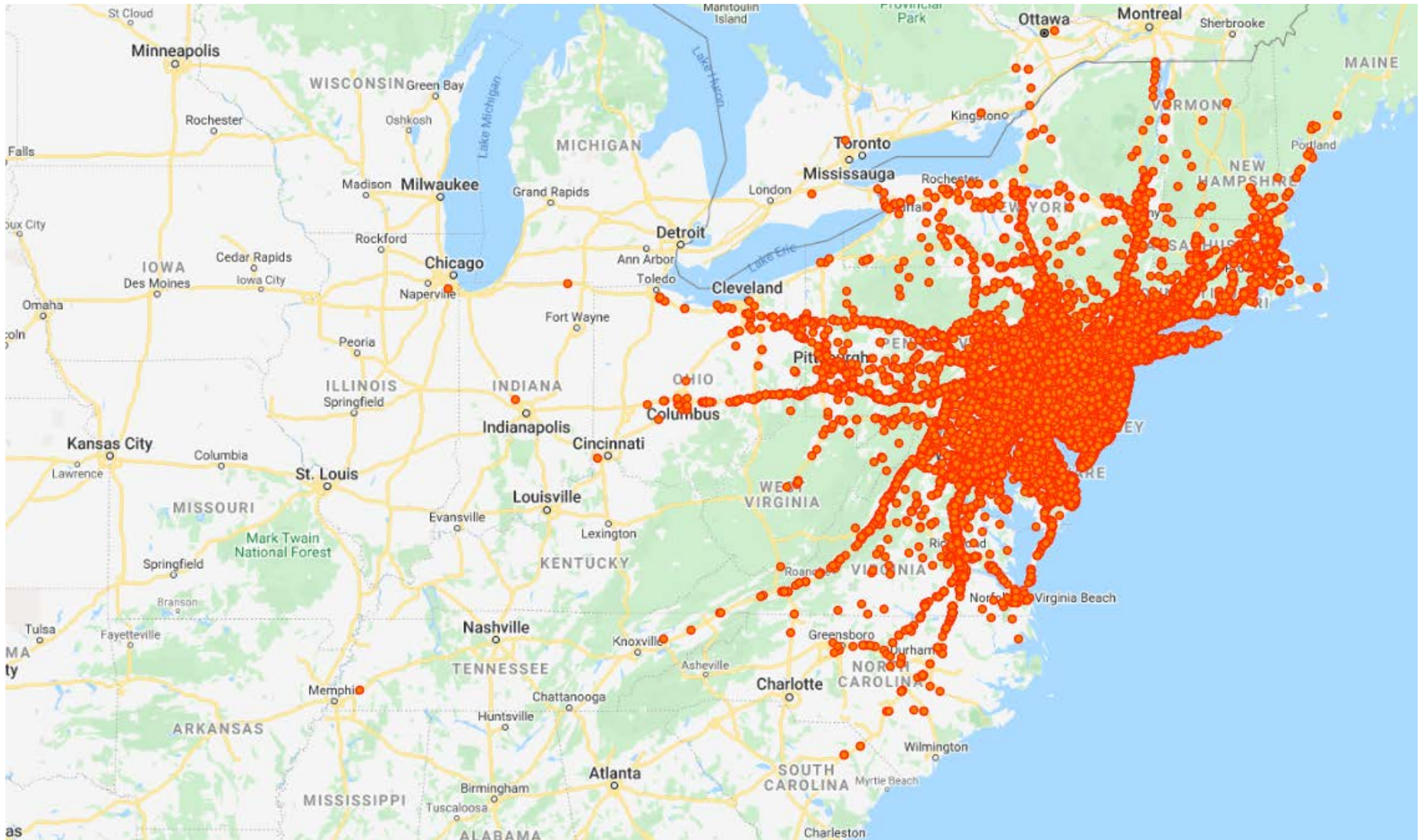
March 10, 2020
Regional Technical Committee



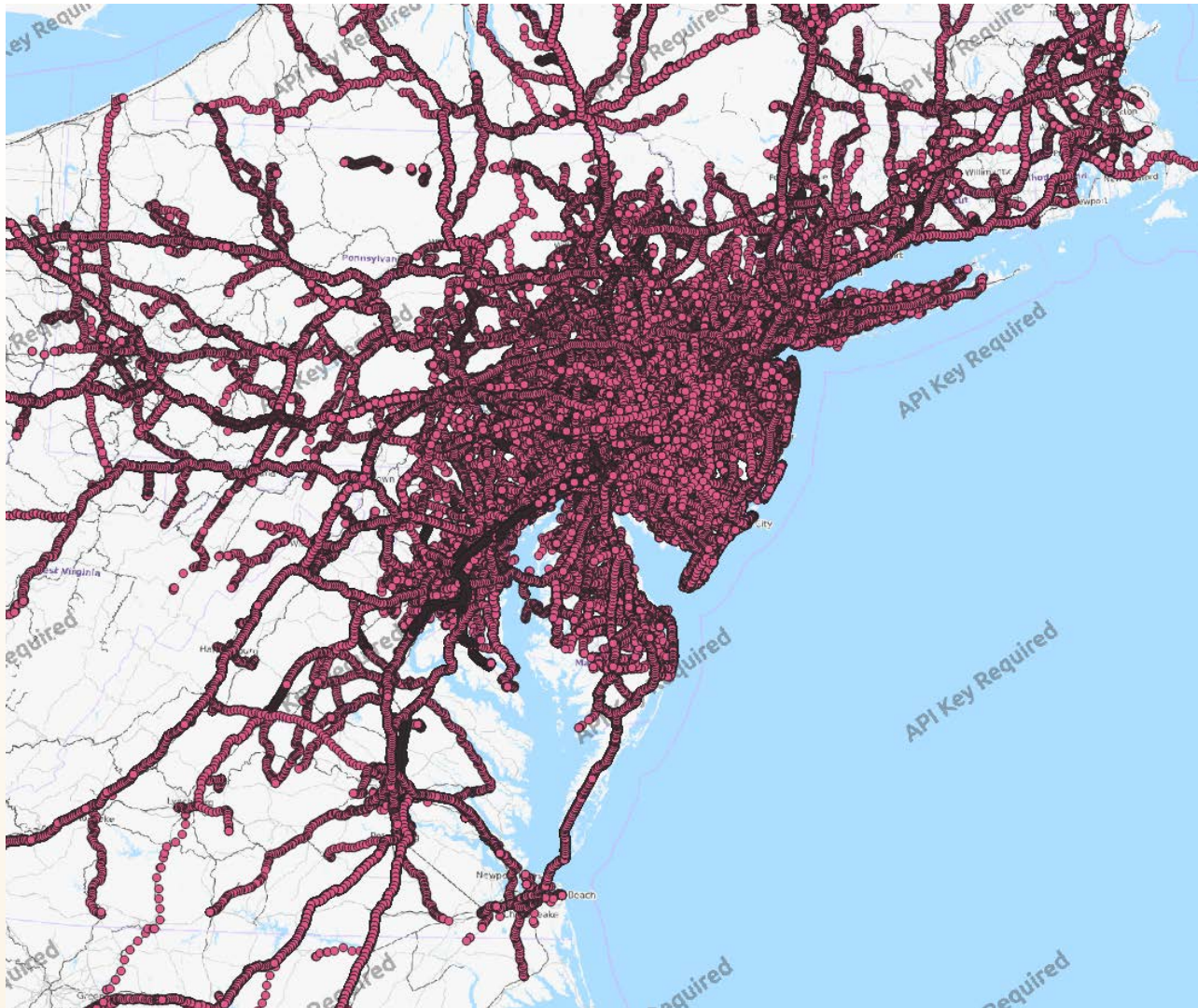
INRIX Truck Trip Data

- Four weeks of data
 - January 21-27, 2018
 - April 22-28, 2018
 - July 15-21, 2018
 - October 14-20, 2018
- Over 2 million trips/week
 - Over 700,000 vehicles
- Over 100 million GPS waypoints/week
- \$72,900 with I-95 Corridor Coalition Discount
 - Multi-user, perpetual use license
 - Cannot share raw data or individual trip data

INRIX Truck Trip Destinations January 21-27, 2018



INRIX Truck Trip GPS Waypoint Data



Data Analysis

- Trip end review and cleaning
 - Some trips begin or end on freeway segments
- Expand INRIX sample to represent all trips
 - Light truck sample size <5%
 - Medium trucks sample size ~40%
 - Heavy truck sample size ~15-20%
- Build trip tours
 - Vehicle IDs change every evening
- Import GPS waypoints
 - 20 hours per day of data
- Conflate GPS waypoints to street network
- Build trip paths from waypoints

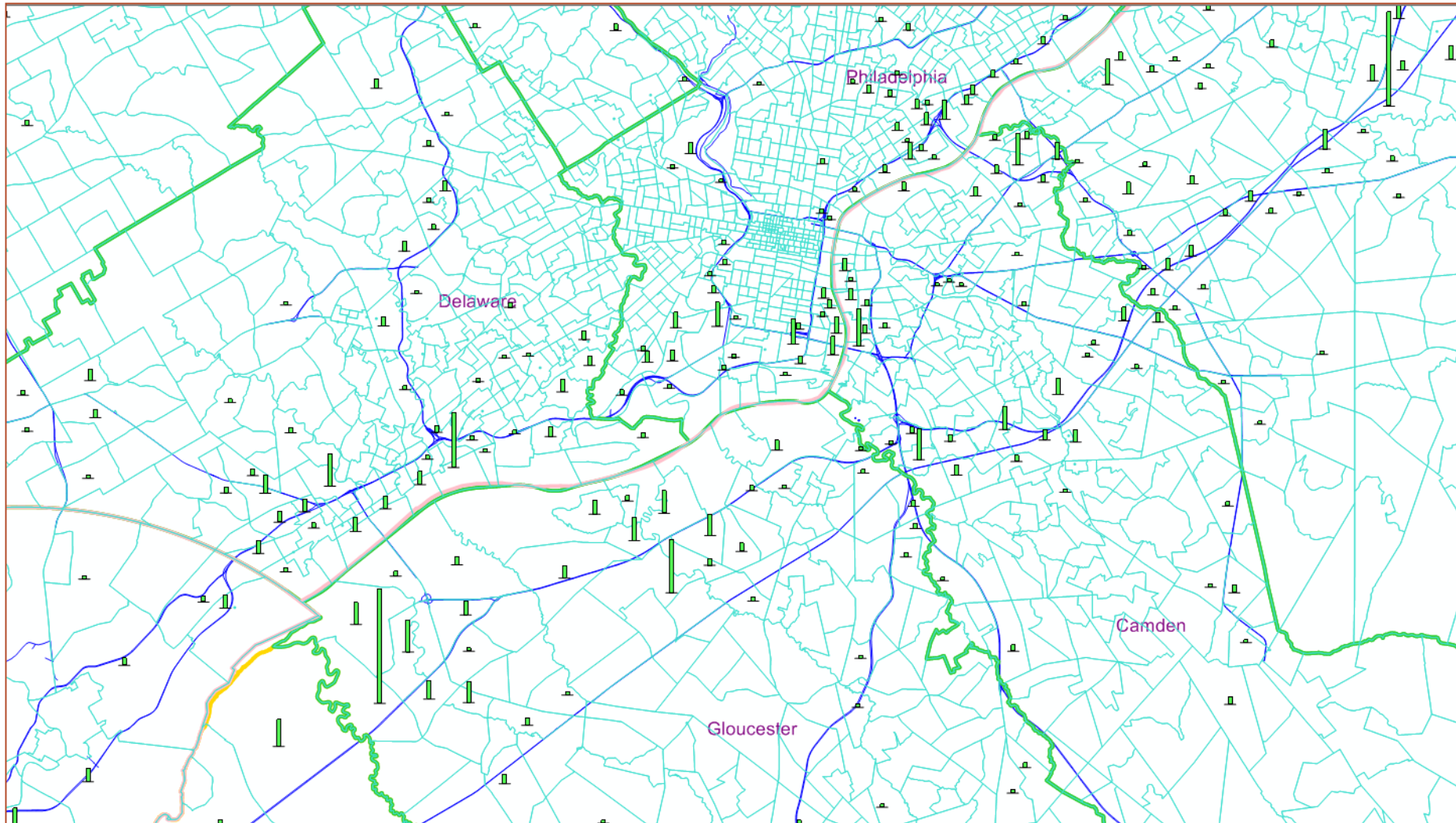
Data Analysis

- Freight Model estimation
 - Join stop locations with land use file
 - Determine truck tour rates
 - Determine stops per tour
 - Calculate trip length frequency distributions
 - Build external-external truck trip tables
- Freight Model validation
 - Light/Heavy truck VMT by county
 - Light/Heavy truck screenline crossings
 - Light/Heavy truck volumes for individual facilities

Example Product – Heavy Truck Trips Origin Map



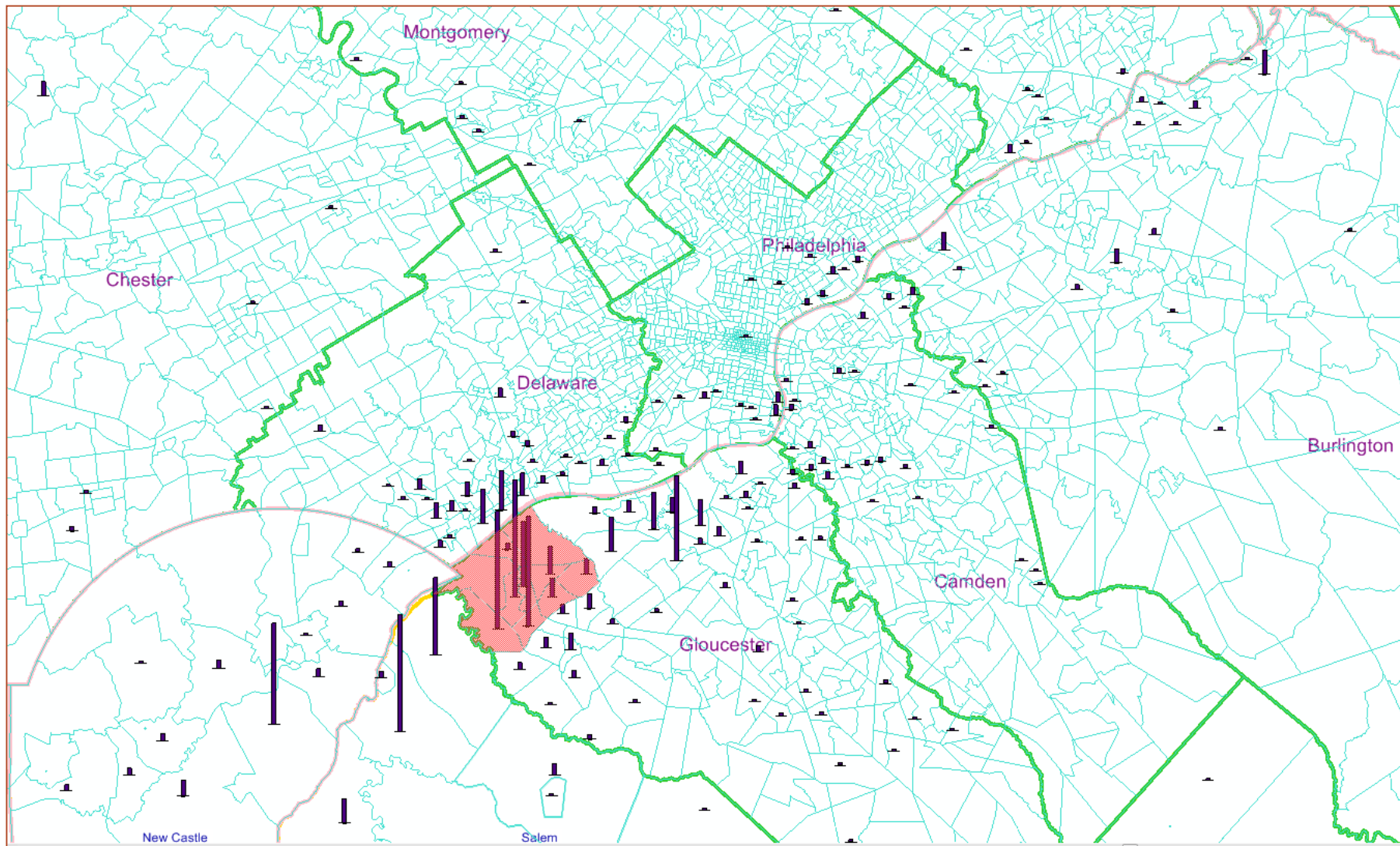
(For Traffic Analysis Zones with 25 or more heavy truck trips per day)



Logan Township Distribution Center

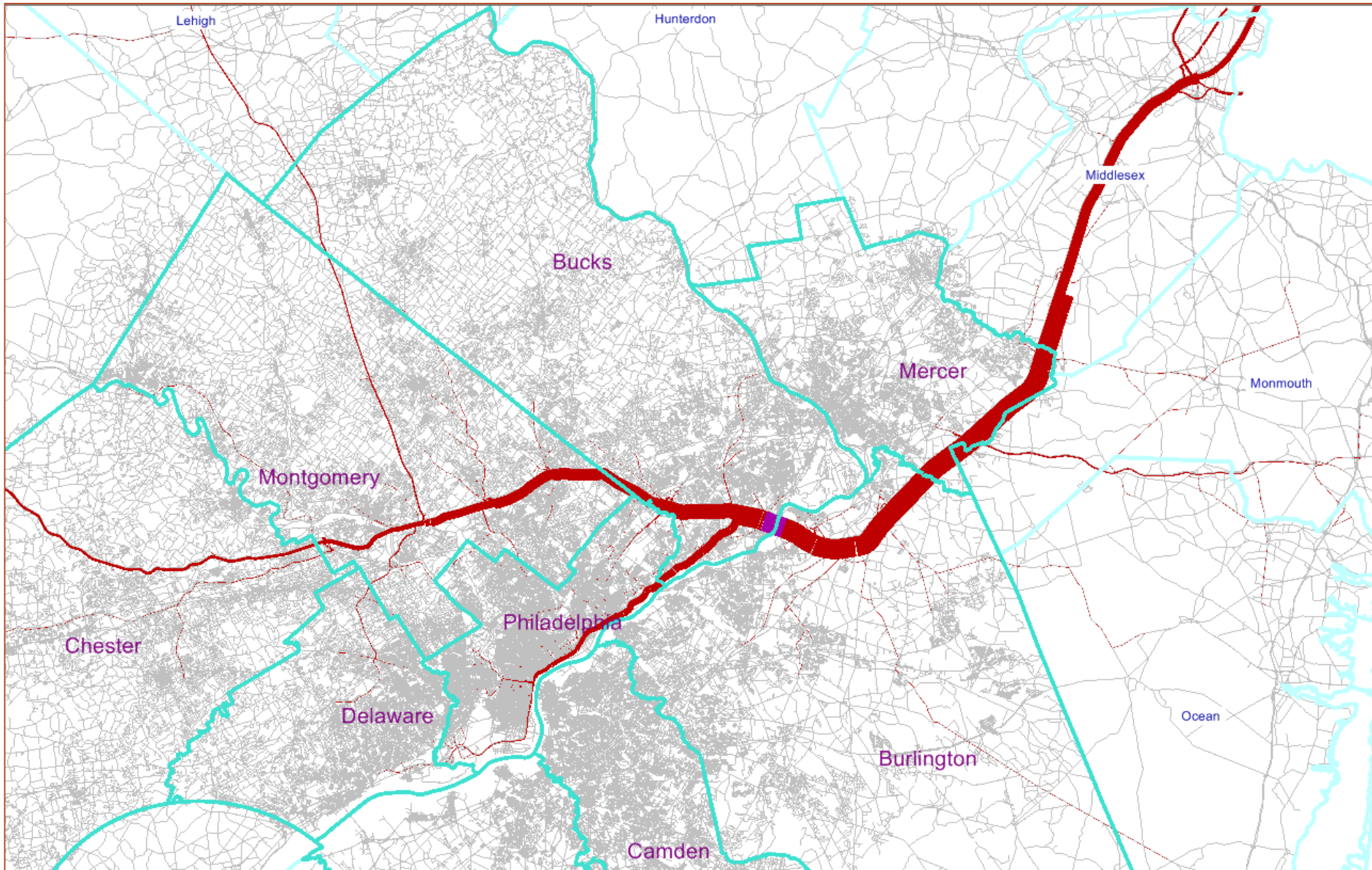


Example Product – Destination of Truck Trips Originating in Logan Twp



Example Product – Select-Link Analysis

Scudder Falls Bridge Eastbound Midday Truck Trip Paths



Truck Trip Data Requests

- Montgomery County
 - Church Road, Cheltenham Township
- Montgomery/Bucks counties
 - PA 309 Connector
- Bucks/Mercer counties
 - I-95 Scudder Falls Bridge
- Philadelphia County
 - Levick & Robbins Street corridor
 - Philaport
- Delaware County
 - I-95 Industrial Park Access

Thank You!
Questions? Comments?



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Public Participation Task Force (PPTF)

Shoshana Akins
sakers@dvrc.org



Goals of PPTF

Provides ongoing public access to the regional planning process


Meetings happen every 5-6 weeks and are not dependant on project timelines

Assists the Commission to implement public outreach strategies

Public participation is part art, part science; need to test and improve

Empower residents to get involved in the planning process

Members can engage with the Commission and bring knowledge back to their communities



Member selection process

Targeted Outreach

Underrepresented communities are contacted by DVRPC staff to encourage people to apply

Selection Committee

PPTF applications are reviewed by non-DVRPC staff and members are selected in a committee meeting

Regional Diversity

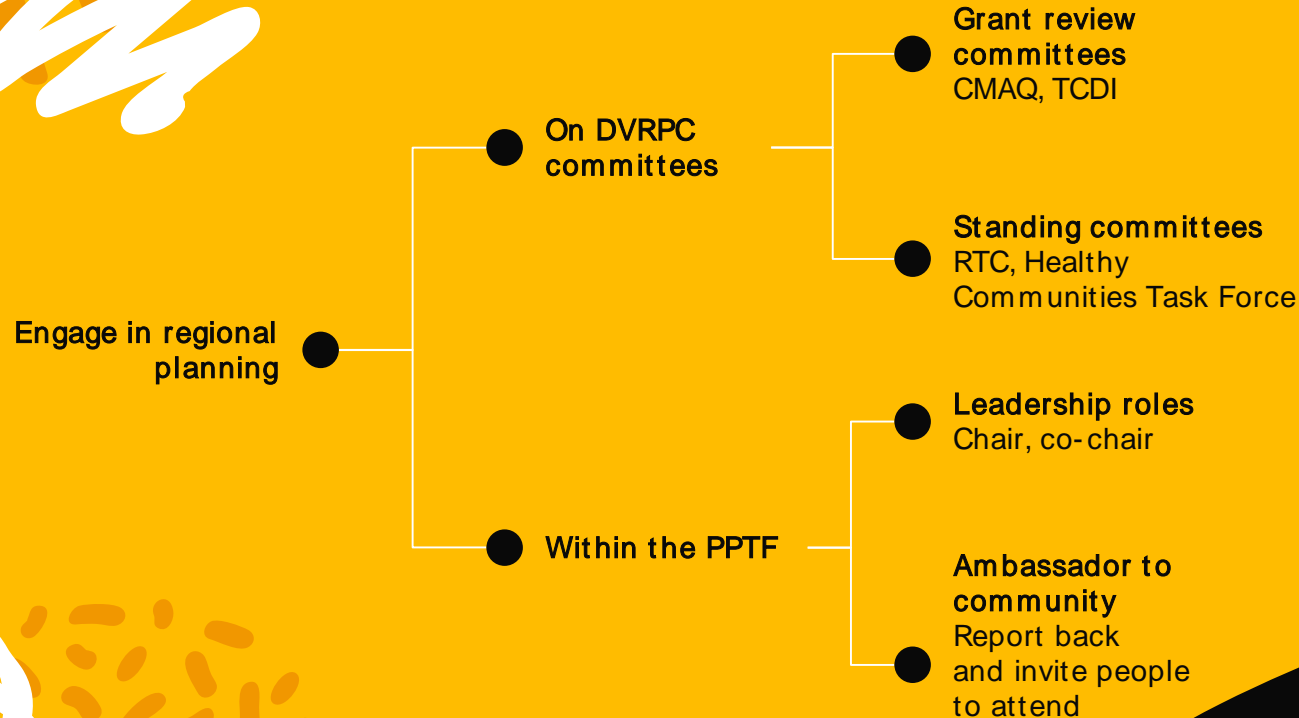
Current members and applicants voluntarily report race, ethnicity, age, gender, and disability information.

PPTF curriculum

- X 9-10 meetings a year
- X Half members-only meetings, half open to all
- X Every year host meetings on critical docs: **Long Range Plan, Transportation Improvement Program, and Work Program** workshop



PPTF roles



PPTF meetings



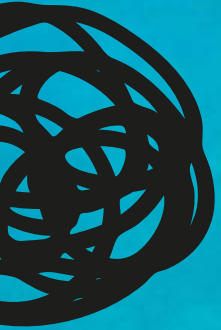
LRP



Non-planning
experts



Work Program



So come on in, the
water is fine!
Meetings are on
DVRPC calendar +
we're always looking
for regional experts





Thanks !

Shoshana Akins
sakins@dvrpc.org



PennDOT District 6-0 Street Typology and Speed Management Decision-Making Framework

DVRPC Office of Safe Streets
Regional Technical Committee
March 10, 2020



Stakeholders

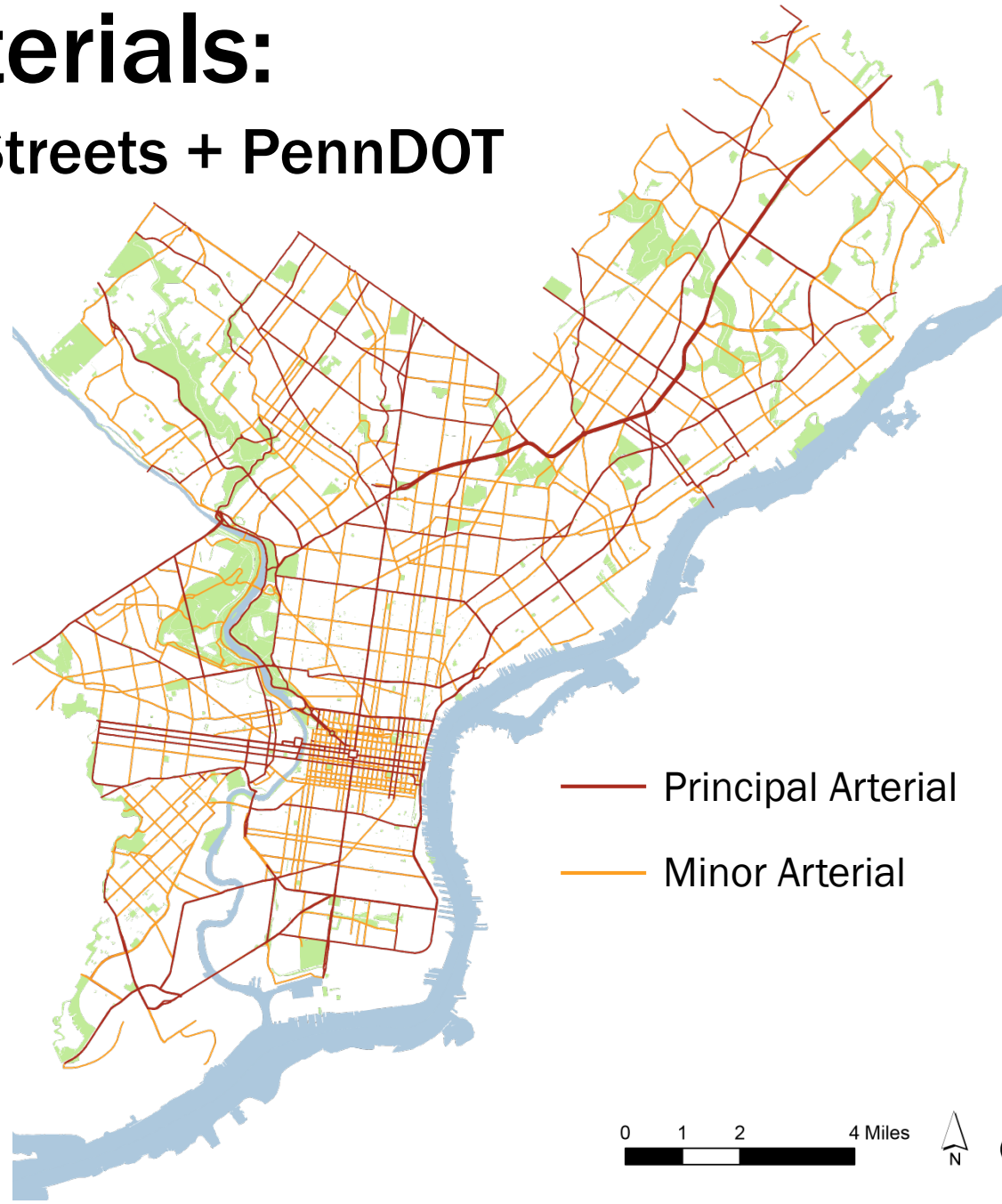
- PennDOT District 6-0
- City of Philadelphia
 - Department of Streets
 - Office of Transportation, Infrastructure, and Sustainability (OTIS)
- PennDOT Bureau of Maintenance and Operations
(Kittelson & Associates, Inc.)
 - *DM 2 Update*

Goal

Create a data-driven approach for determining where speed management treatments are most appropriate on arterials in Philadelphia

Study Arterials:

Philadelphia Streets + PennDOT



Comparison: Principal Arterials

Henry Ave



- **Width:** 73 ft
- **No. of lanes:** 4
- **Speed limit:** 35
- **AADT:** 11,500
- **Land Use:** Park/Residential
- **Context:** Suburban
- **Jurisdiction:** State

Torresdale Ave



- **Width:** 46 ft
- **No. of lanes:** 2
- **Speed limit:** 30
- **AADT:** 14,500
- **Land Use:** Residential-Commercial
- **Context:** Urban
- **Jurisdiction:** State

Key Questions

1. What speed management strategies are possible **within the cartway** of the arterial? (ROAD)
2. What **land uses** front the street and how do they dictate which speed management strategies are appropriate? (LAND)
3. Citywide, how does the arterial fit into the **overall transportation network**? (CONTEXT)
 - Is the priority for land access or vehicle mobility?

1. Roadway Characteristics



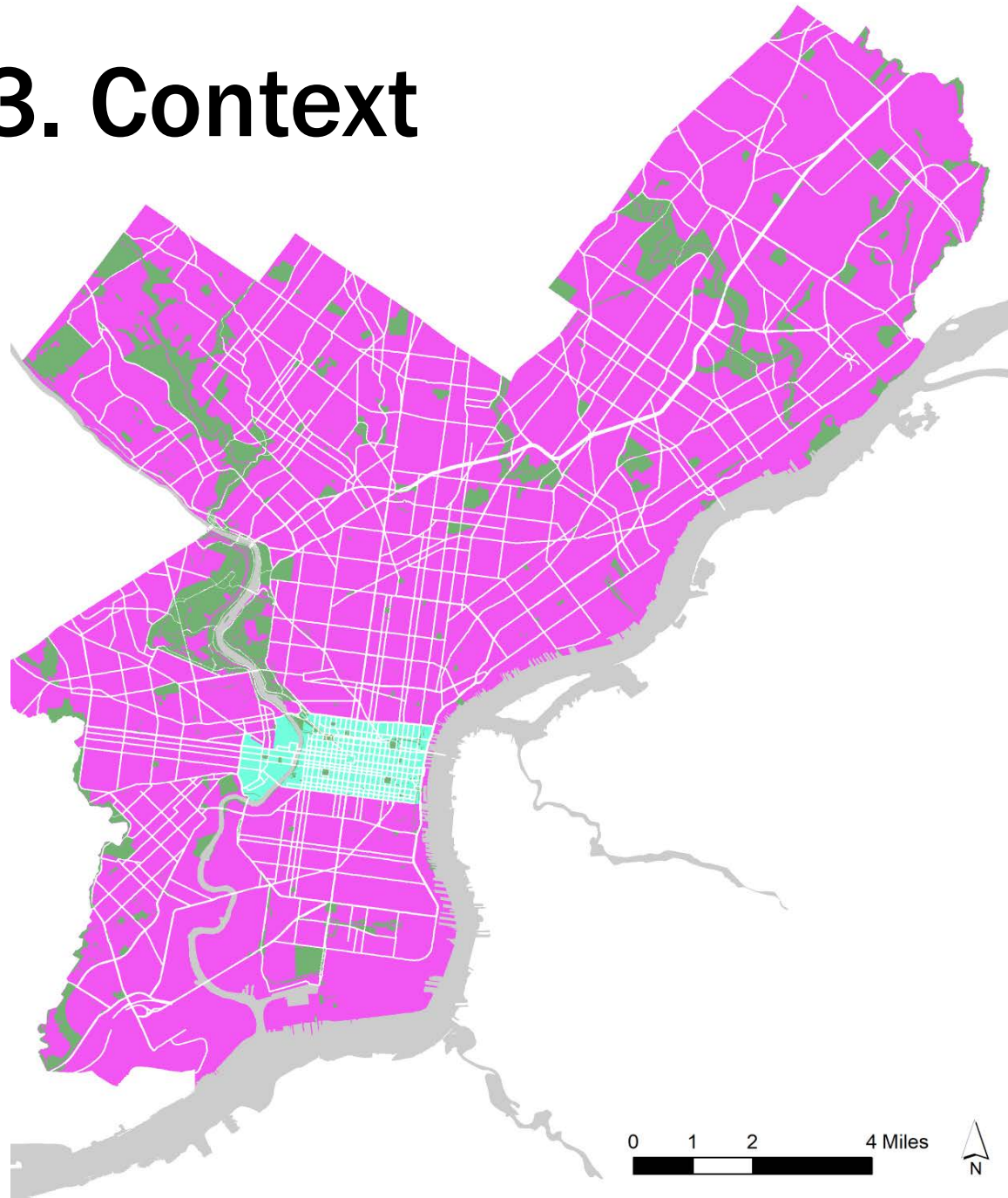
- Width
- Number of lanes
- AADT
- Speed limit

2. Land Use



3. Context

- Urban
- Urban Core





TYOLOGY ASSIGNMENT

Typology Development

1. Roadway Characteristics

- Volume
- Width and number of lanes
- Intersection density/signalization
- Speed limits
- One-way vs. two-way

2. Land Use

3. Context

1. Roadway Characteristics

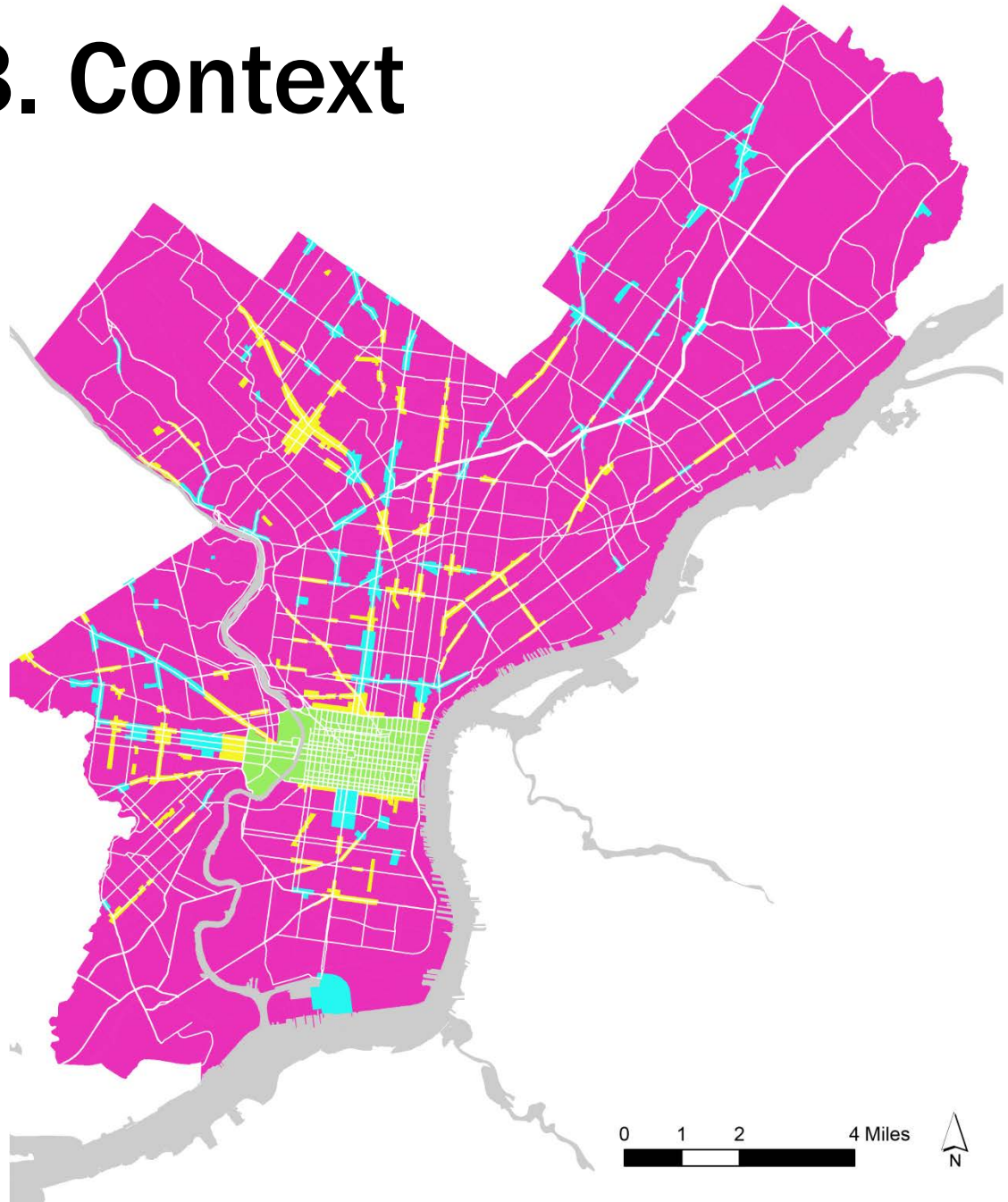
- Key indicators:
 - **Narrow:** less than 35 ft and any number of lanes OR less than 50 ft and less than 3 lanes
 - **Wide:** greater than 50 ft and any number of lanes OR greater than 35 ft and 3 or more lanes
 - **High Volume (“Connector”):** greater than 11,500 AADT

2. Land Use

- **Residential/Commercial** (“Neighborhood” uses)
 - Residential
 - Commercial
 - Residential-Commercial
 - Residential-Industrial
- **Others** (“Connector” uses)
 - Industrial
 - Commercial-Industrial
 - Park

3. Context

- Urban
- Urban Core
 - Center City (green)
 - Commercial Corridors (blue & yellow)
 - Schools (not shown)



Typologies

Narrow Neighborhood

Commercial/residential land use

Narrow street

Less than 11,500 AADT

Narrow Connector

Narrow street

Greater than 11,500 AADT, or
industrial land use

Wide Neighborhood

Commercial/residential land use

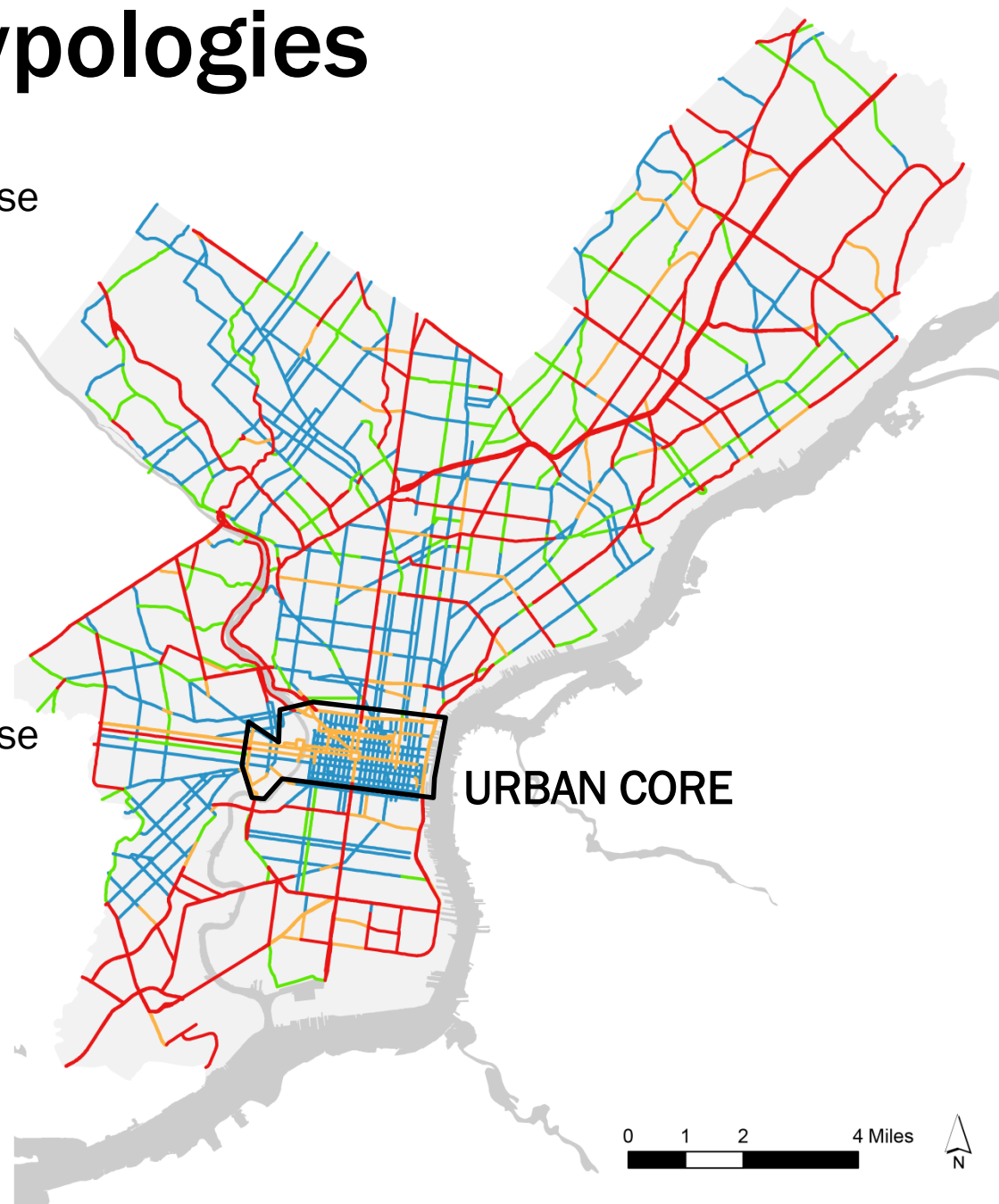
Wide street

Less than 11,500 AADT

Wide Connector

Wide street

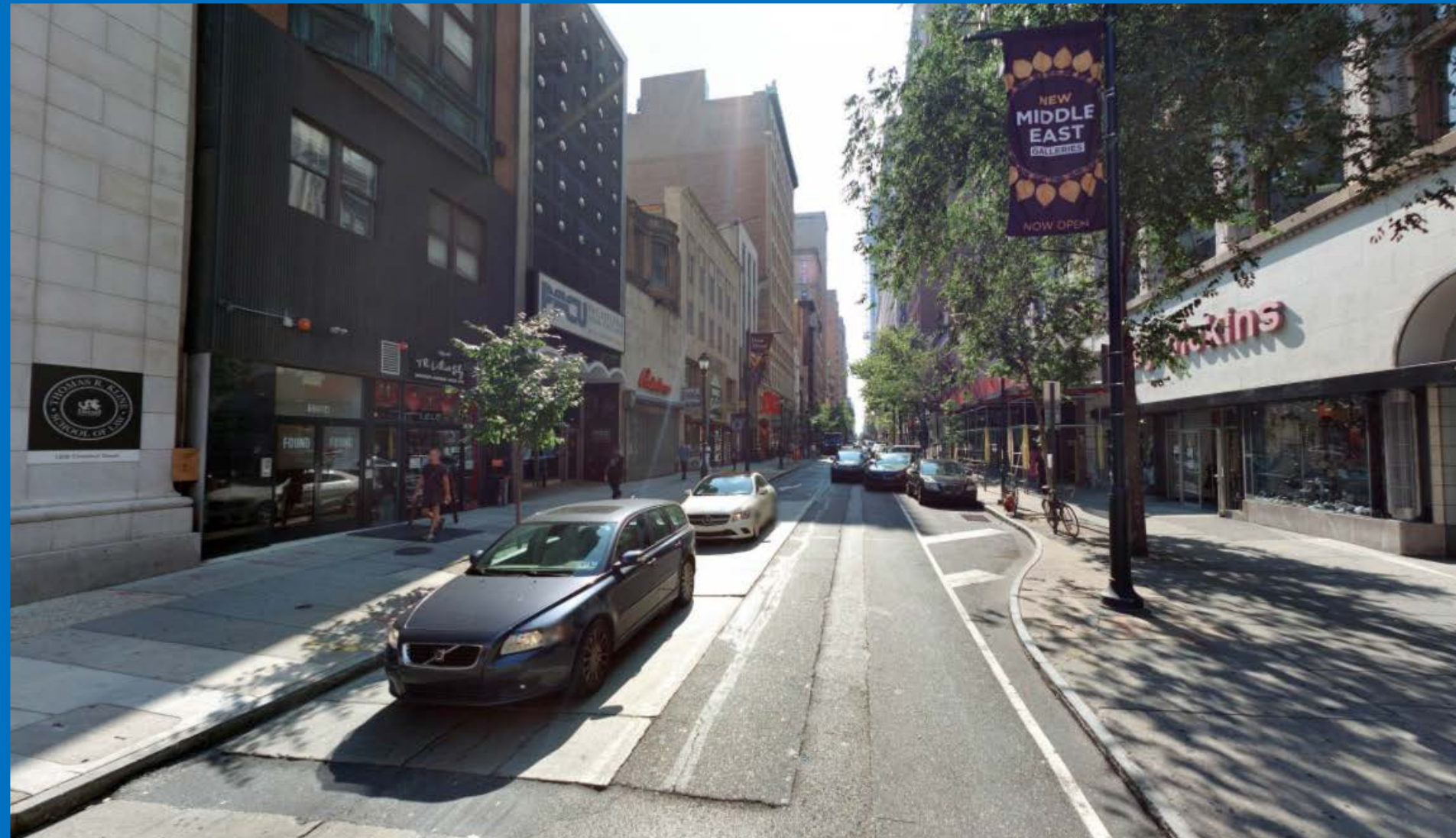
Greater than 11,500 AADT, or
industrial land use



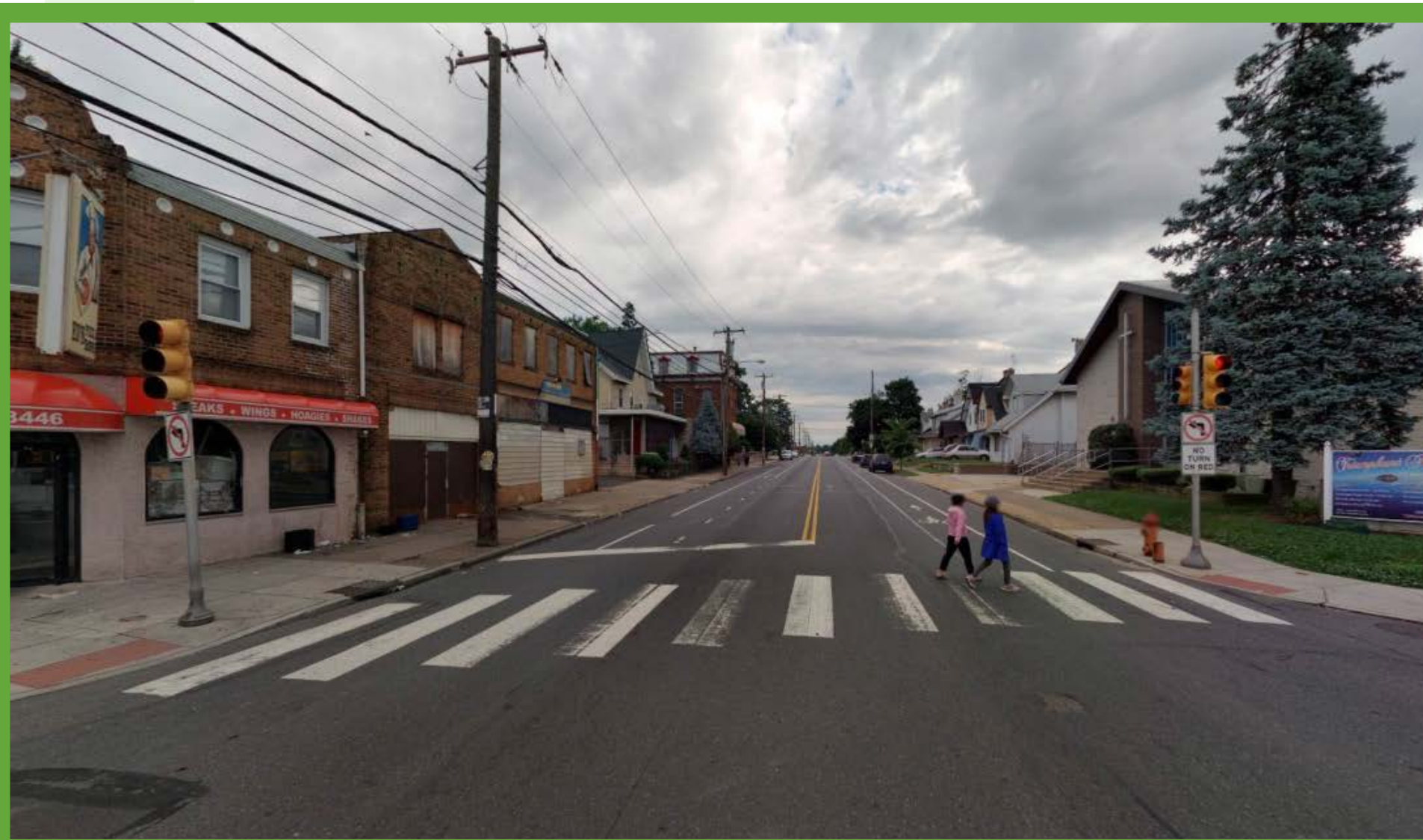
Example Streets: School House Ln @ Wissahickon Av



Example Streets: Chestnut St @ 12th St



Example Streets: Rising Sun Av @ Tabor Av



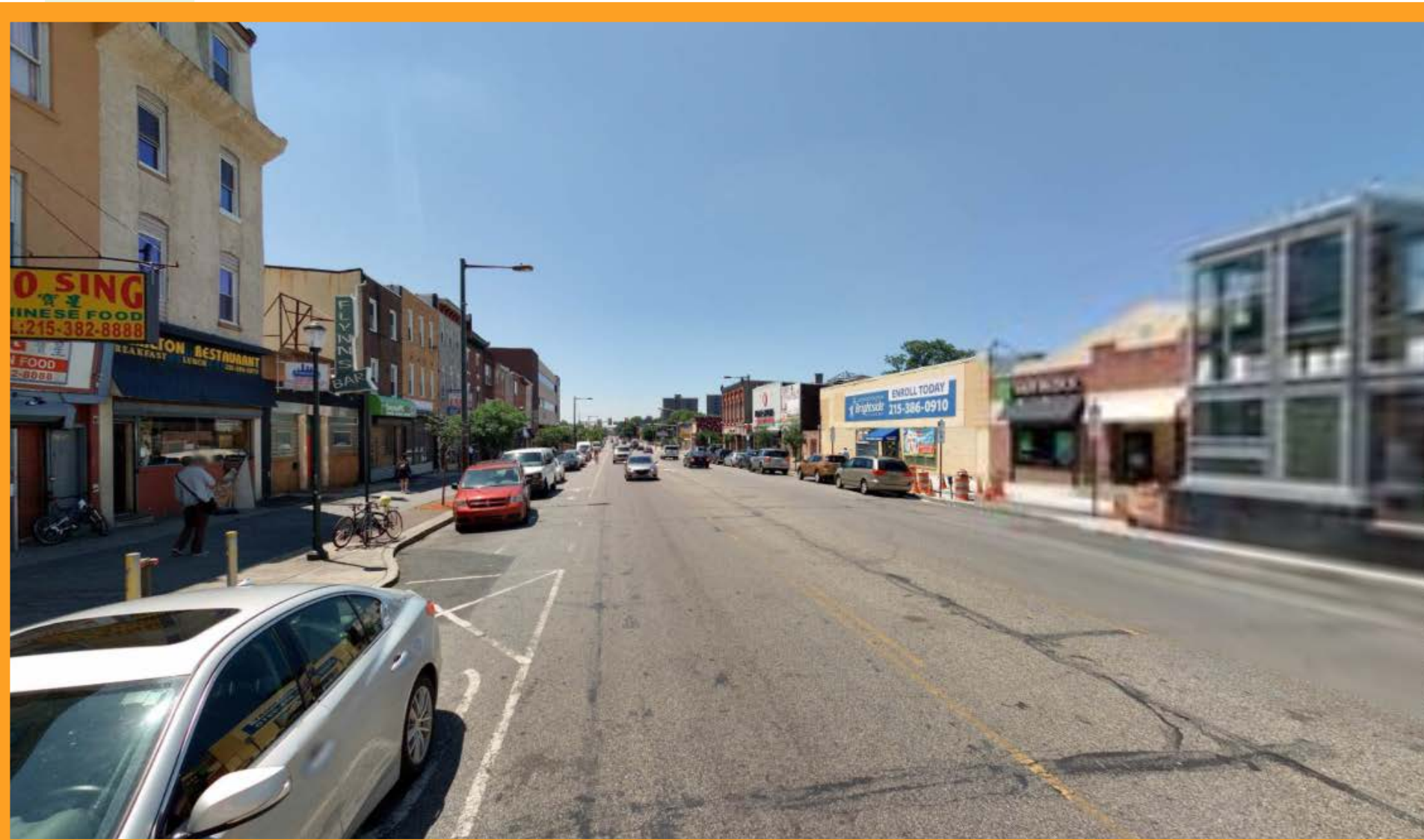
Example Streets: G St @ Erie Av



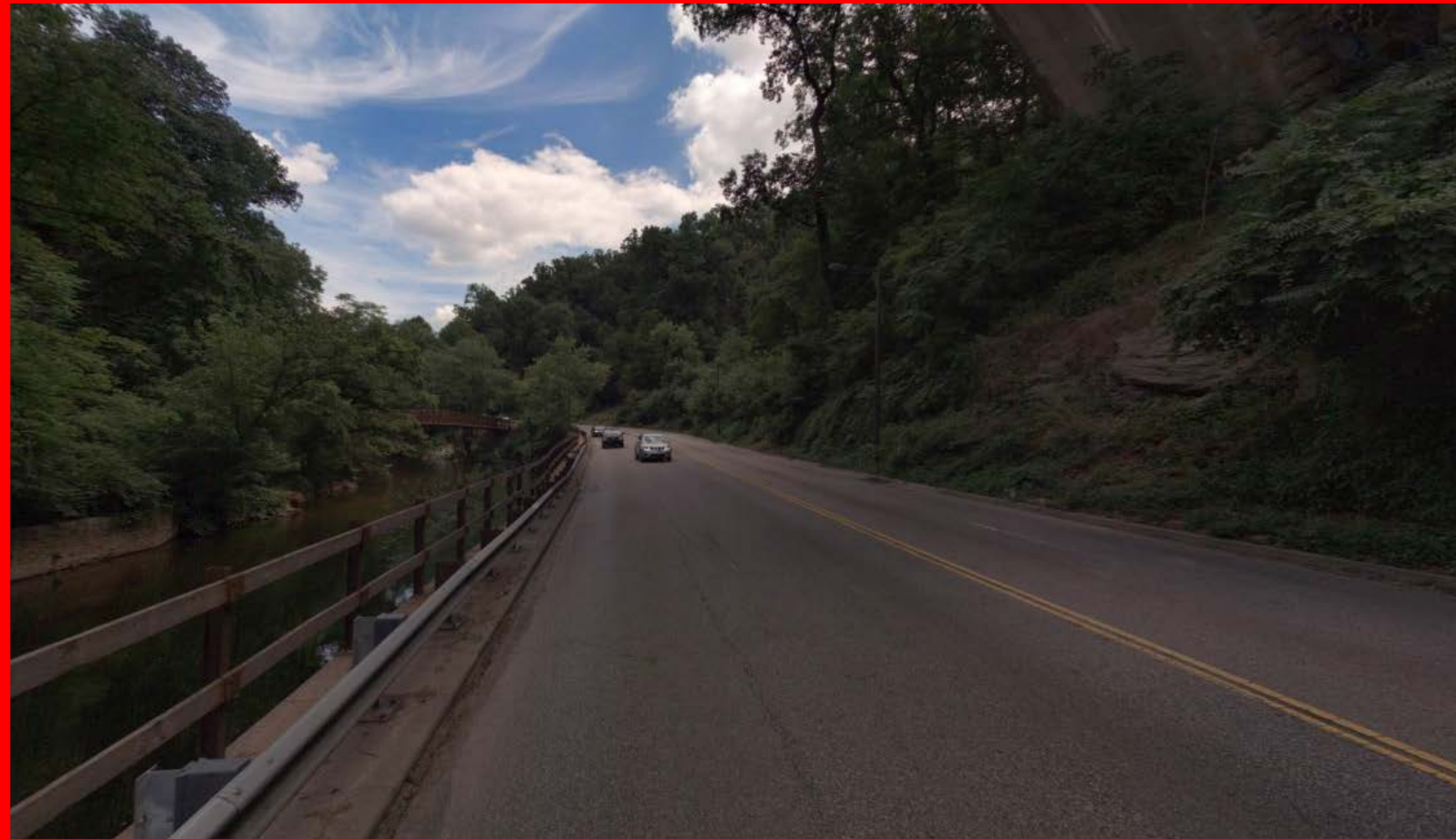
Example Streets: Castor Av @ Devereaux Av



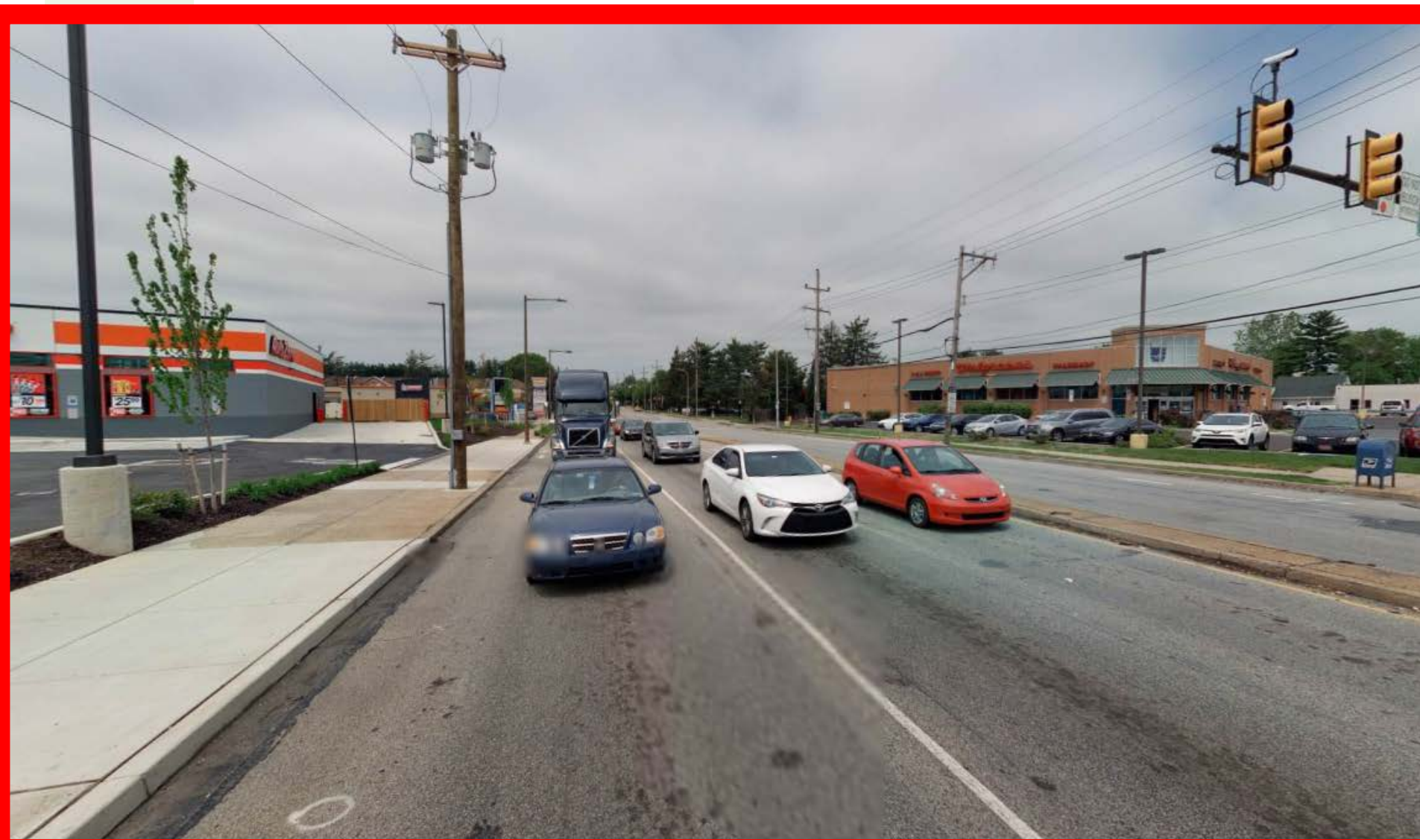
Example Streets: Market St @ 40th St



Example Streets: Lincoln Dr @ Henry Av



Example Streets: Red Lion Rd @ Bustleton Av



Final Product Development

- New typology layers for the District 6-0 safety webmap
- Linked primer with data dictionary, framework, methodology, etc.
- Proposed changes to speed management evaluation process incorporating new typologies



Questions?

Marco Gorini

Transportation Planner

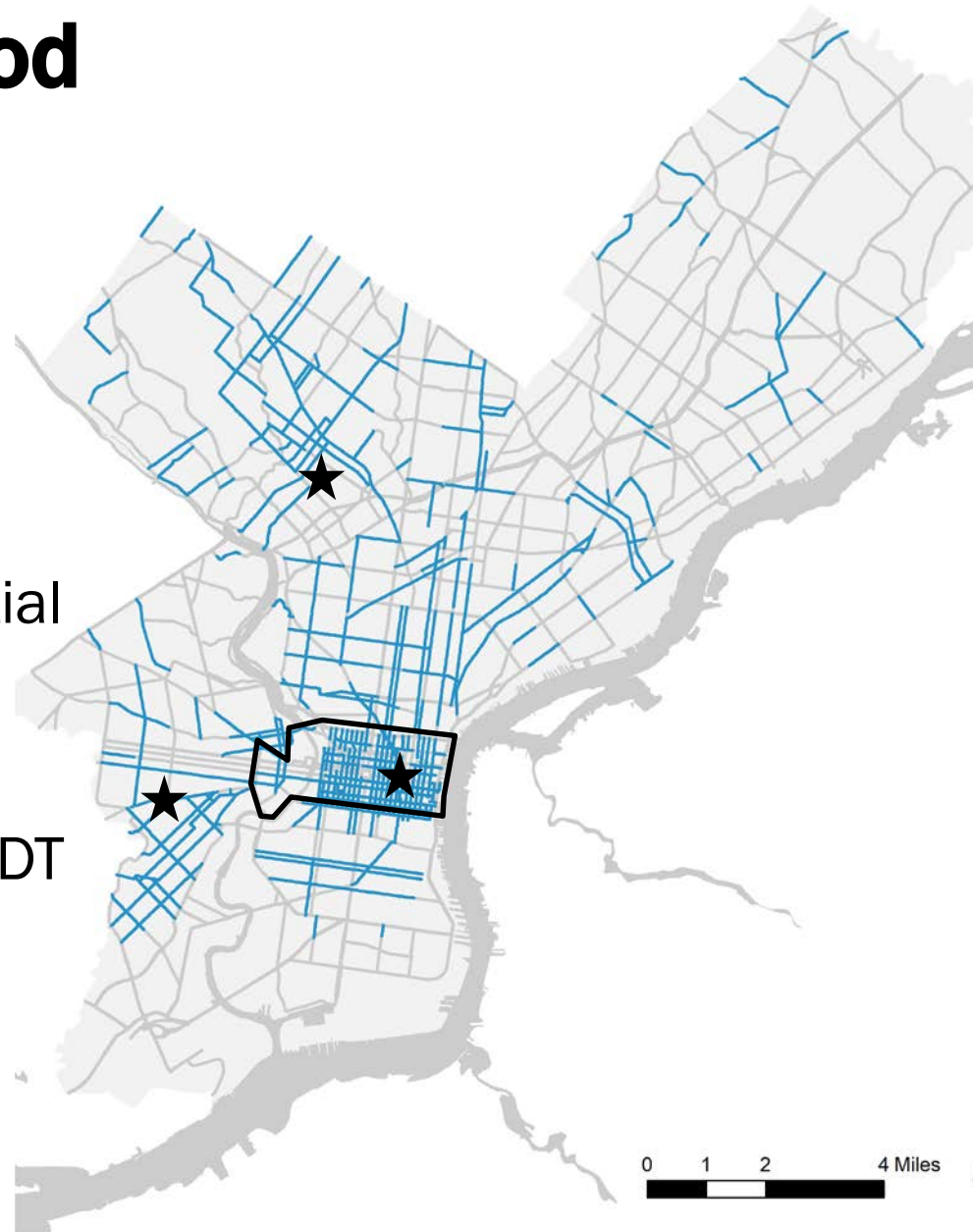
p: 215-238-2884

e: mgorini@dvrpc.org

Overview:

Narrow Neighborhood

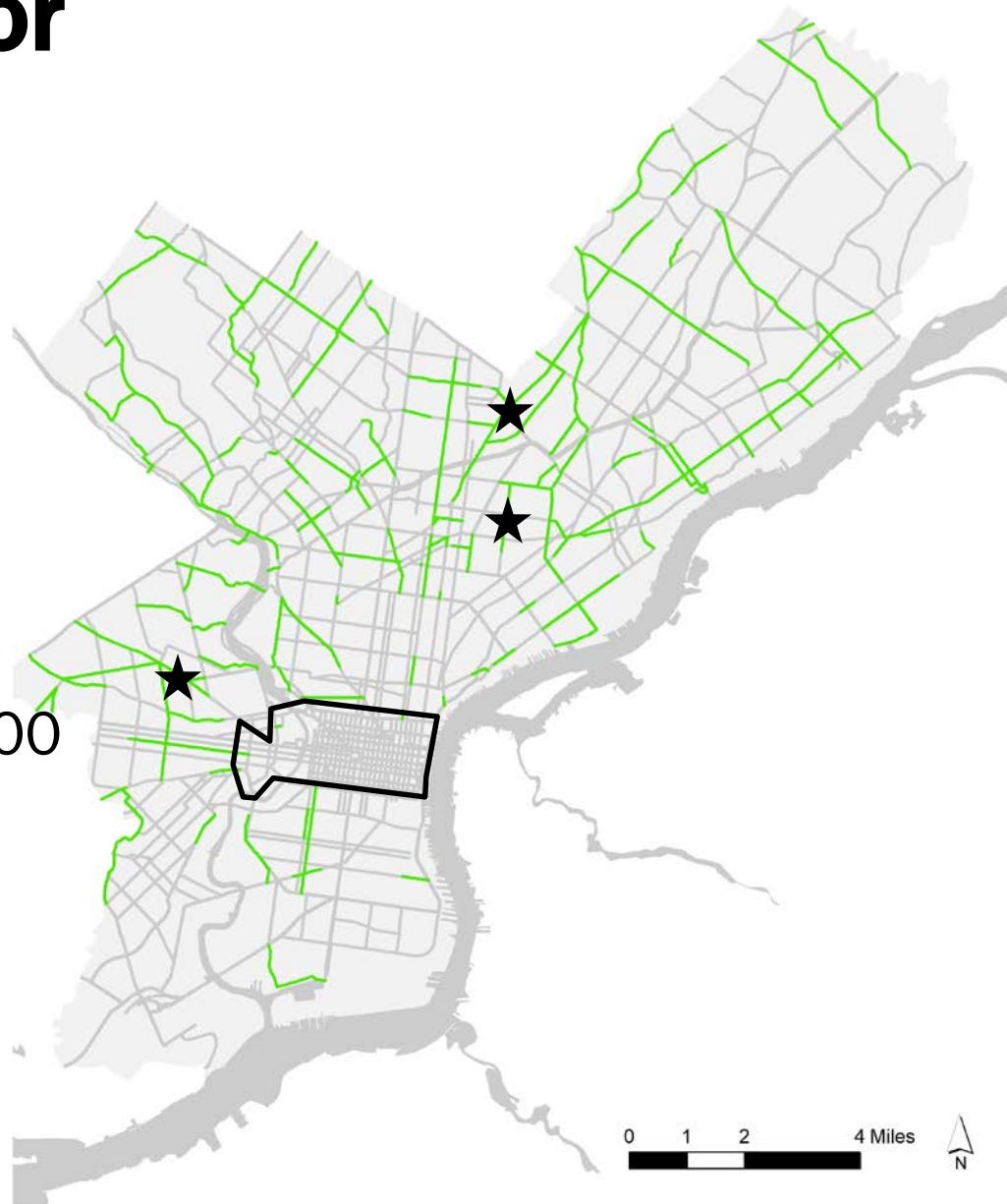
- Total mileage:
 - 207 mi (29% of network)
- Definition:
 - *Urban context:*
 1. Commercial/residential land use
 2. Narrow street
 3. Less than 10,000 AADT
 - *Urban core context:*
 1. Narrow street



Overview:

Narrow Connector

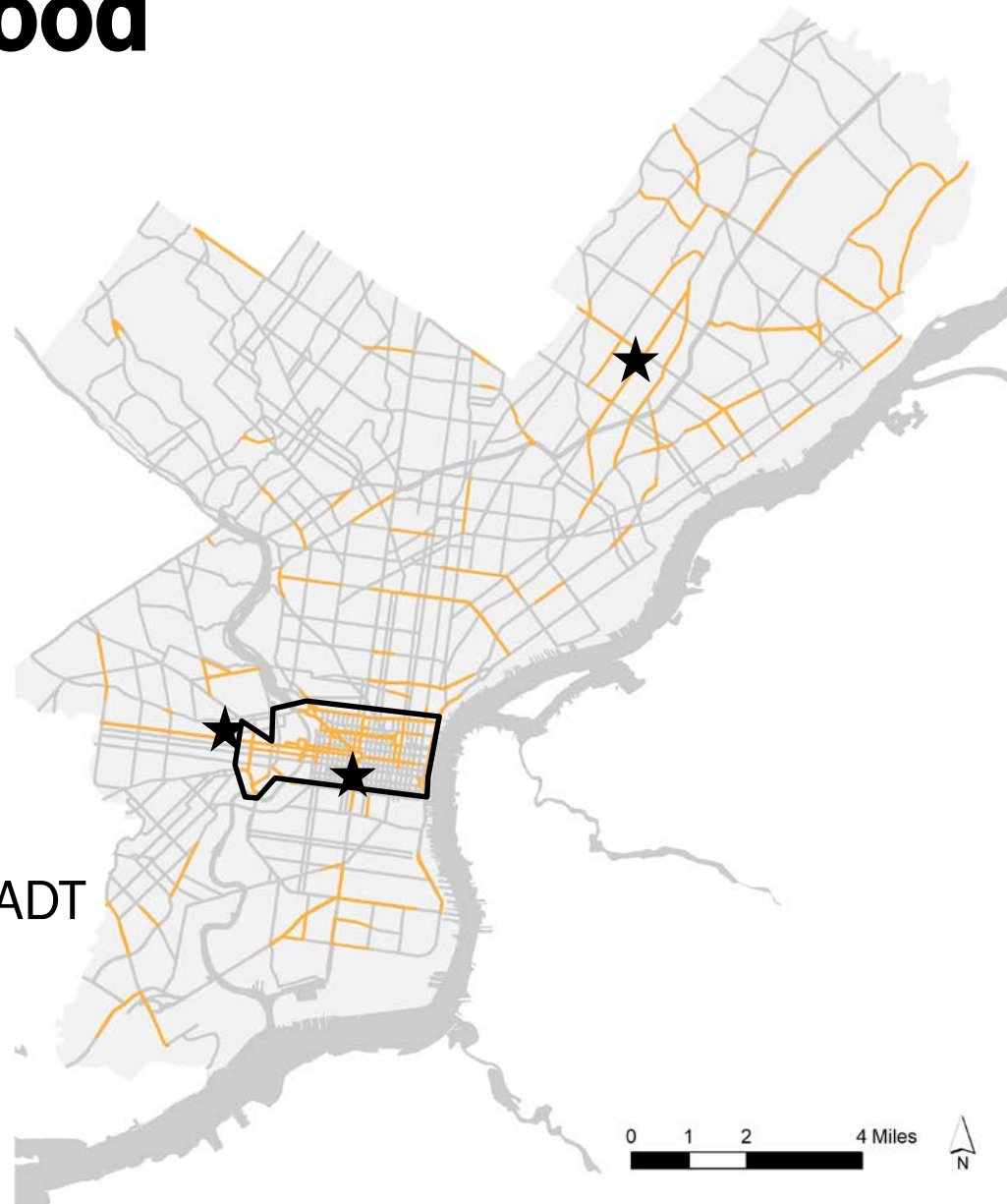
- Total mileage:
 - 124 miles (17% of network)
- Definition:
 - *Urban context*:
 1. Narrow street
 2. Greater than 10,000 AADT, or industrial land use
 - *Urban core context*:
 - N/A



Overview:

Wide Neighborhood

- Total mileage:
 - 148 miles (21% of network)
- Definition:
 - *Urban context*:
 1. Commercial/residential land use
 2. Wide street
 3. Less than 10,000 AADT
 - *Urban core context*:
 1. Wide street



Overview:

Wide Connector

- Total mileage:
 - 238 miles
(33% of network)
- Definition:
 - *Urban context:*
 1. Wide street
 2. Greater than 10,000 AADT, or industrial land use
 - *Urban core context:*
 - N/A

